architecture / engineering / construction

symposia

june, 1971

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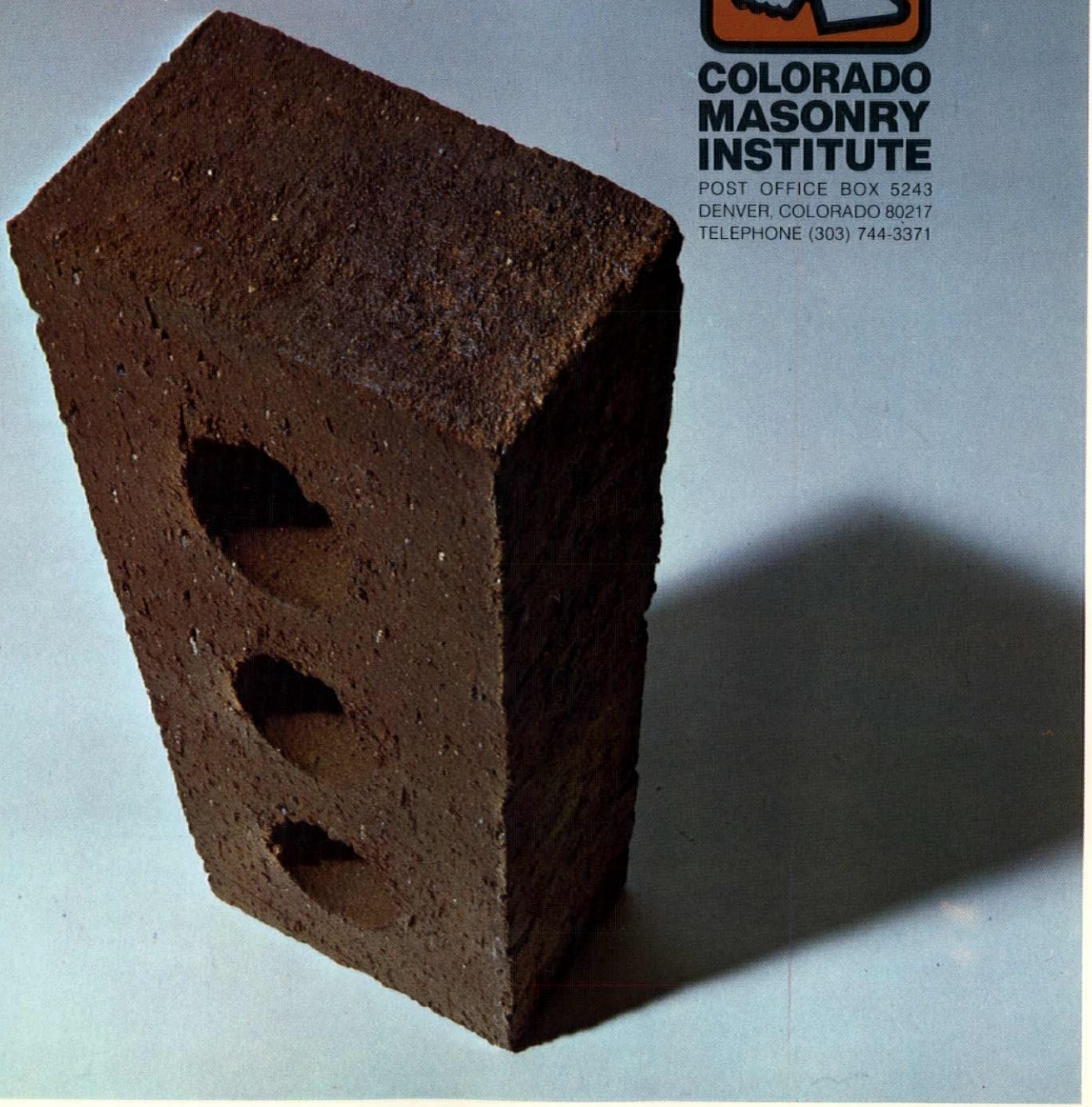
DENVER, CO. 80202

Building a new building?

In this age of Precast, Twin-T, Steel, Glass and Aluminum building materials, there's still a way to get the best speed, economy, design flexibility, color, texture and load-bearing walls.

How? Build out of Brick.



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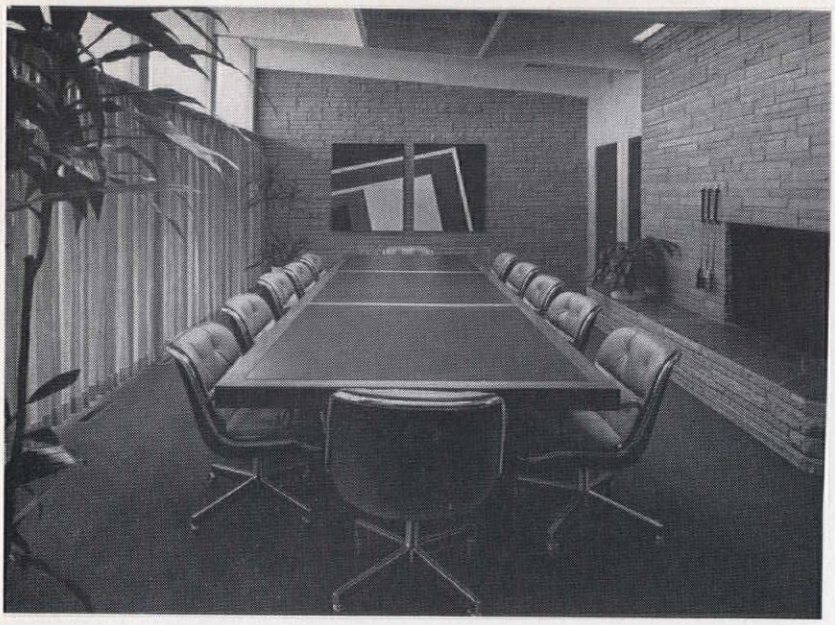


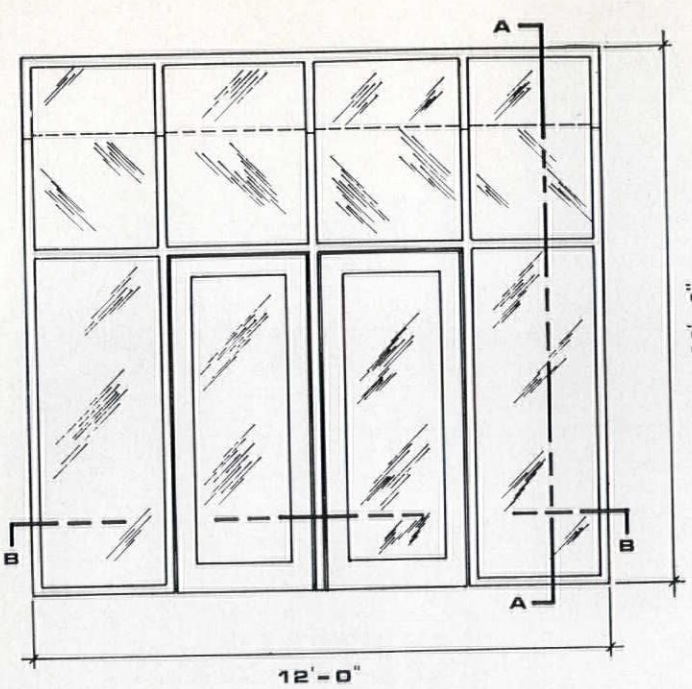
These attractive offices were furnished by Seal for Monfort of Colorado

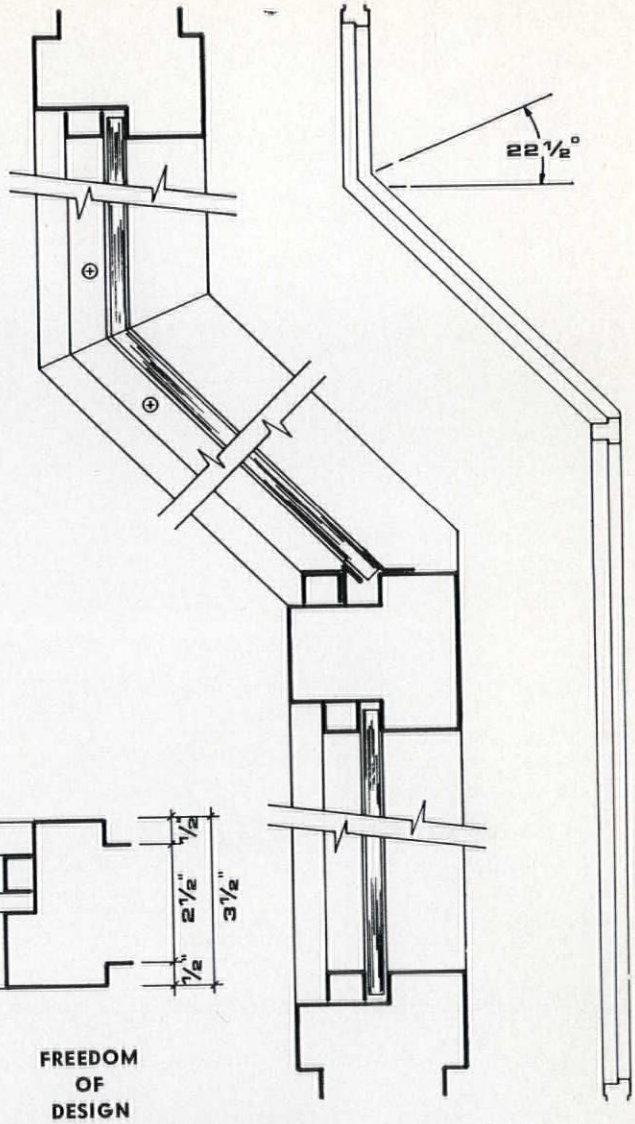
Monfort of Colorado, one of America's leading cattle feeding and packing firms, is now in its new Greeley home office building. Working with architect Neal Carpenter, A.I.A., and designer Robert Caudle, A.I.D., the new offices were furnished by Seal Furniture. A carefully coordinated design, color and function plan was created to provide an attractive office environment with maximum efficiency. The furniture was produced by such distinguished makers as Knoll and Herman Miller, just two of the great names offered by Seal. Many others are also available to designers, architects and their clients. Visit our expanded and remodeled showrooms at 80 South Santa Fe and see these exciting lines of furniture, floor coverings, draperies, filing systems and decorative accessories. Our drapery workroom provides in-house quality control. Call us at 777-3071. We will be pleased to have one of our experienced representatives explain how we can assist you in your planning.

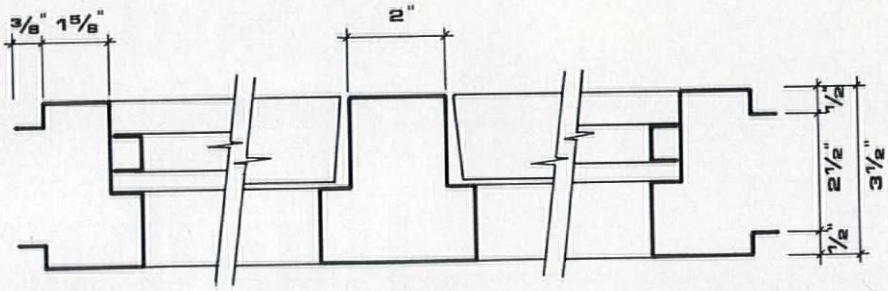
SEAL

FURNITURE, INC.

80 SO. SANTA FE / DENVER / 777-3071







SEC. B-B

SEC. A-A

FREEDOM
OF
DESIGN
BY

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CONTRACTOR:
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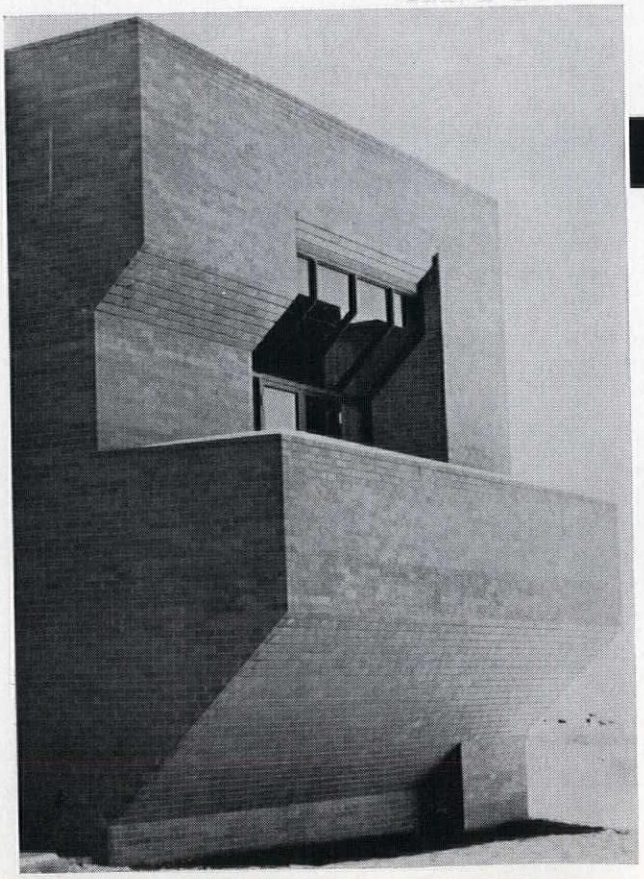
DENVER, COLORADO

HOLLOW METAL MANUFACTURER
R. C. HOLLOW METAL COMPANY
DENVER, COLORADO



Kissinger Office Building Honor Award Western Mountain Region—A.I.A.—1970

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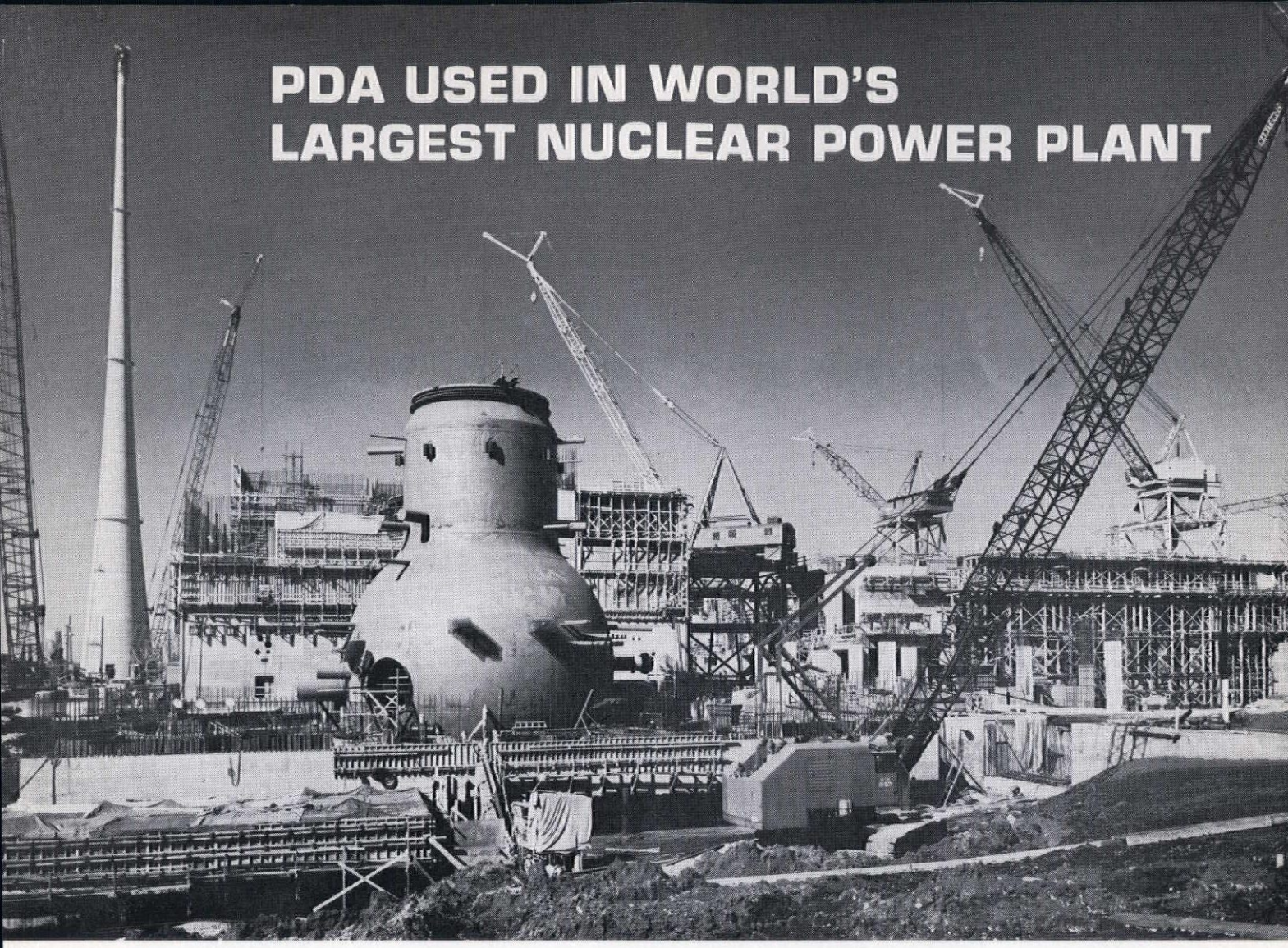

WHAT DO YOU DO . . . to achieve higher quality concrete . . . . CONSISTENTLY?

TVA's Browns Ferry Nuclear Power Plant is under construction at a site on Wheeler Lake, ten miles southwest of Athens, Alabama. It will be the world's largest nuclear power plant, with a total generating capacity of nearly 3½ million kilowatts in three units. The first unit is scheduled for operation in the spring of 1972.

PDA was awarded the contract for water reducing concrete admixtures at the Browns Ferry Nuclear Power Plant, based upon competitive bidding and subsequent laboratory tests by the Tennessee Valley Authority.

Over 200,000 cubic yards of **PDA** concrete has been placed at this project, including 3,400 cubic yards of concrete for Reactor Building nuclear shielding. Although the cement factors are low, and a high percentage of fly ash has been used, **PDA** concrete has averaged 3700 psi at 28 days, while consistently producing economical concrete mixes displaying good workability and placeability characteristics. Infrared spectro analysis tests by TVA have verified the consistency of **PDA** during the project.

You, too, can have these same advantages — consistently — with **PDA** concrete by contacting your local Protex representative or:

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symposia

construction communications in the West

OFFICIAL PUBLICATION WESTERN MOUNTAIN REGION CONFERENCE/AIA

VOLUME 6 NUMBER 1 JUNE, 1971

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STEEL and ALUMINUM

for

- CONCRETE
- PRECAST TILT-UP
- POURED IN PLACE
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JUNE, 1971

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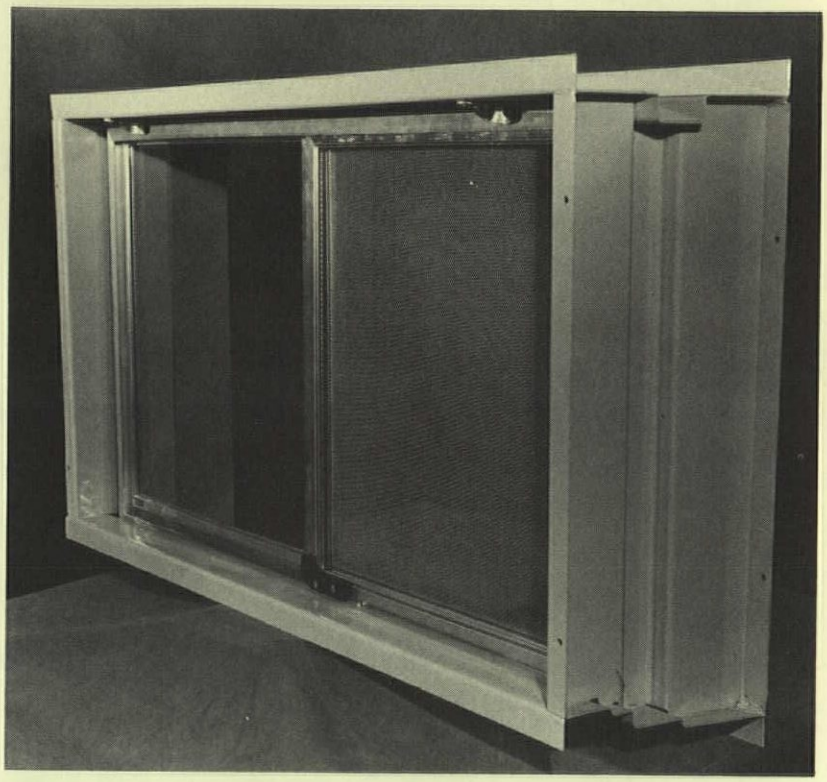
FULL WALL-WIDTH BASEMENT WINDOWS

complete with ALUMINUM ONE-PIECE SLIDER and SCREEN



Colorado Metal Products full wall-width basement windows, manufactured from 16-gauge, hot-rolled steel, are "Mig" Welded and Bonderized. The heavy coat of baked-on enamel prevents corrosion and enhances the appearance.

The 6063 Aluminum Window Insert with deterioration resistant weather-stripping on all four sides, is a one-piece unit. It consists of durable aluminum screen, stationary glass and sliding panel, equipped with self-centering nylon bearings.

A newly designed, fingertip-controlled lock enables the sliding panel to operate with ease and provides automatic locking when in a closed position.

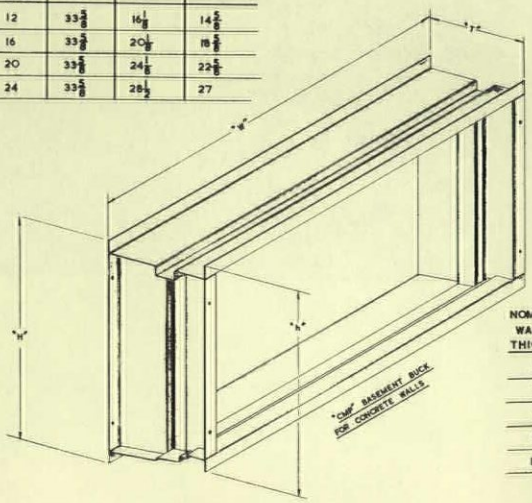
Double cam latches compress the weather-stripping thus making it weathertight, guaranteeing a positive fastening of the insert into the buck and permitting quick removal for cleaning as well as for emergencies.

One-Piece Aluminum Storm Sash available for each size.

EXCLUSIVE FEATURES:

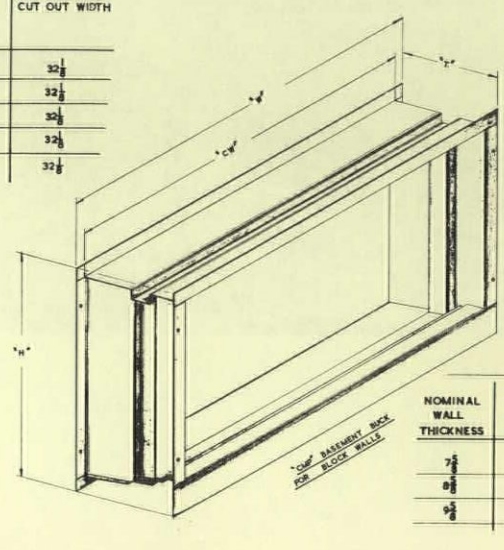
- Faster Installation
- Neater Appearance
- Easily-Removed Inserts
- No Lintel Required
- No Trim Required
- Economical
- Trouble-free
- Ideal for Finished Basements
- No Sill or Filler Blocks Required for Block Walls

BUCK SIZES	"W" WIDTH	"H" HEIGHT (OUTSIDE)	"h" HEIGHT (INSIDE)
15 × 12	33 5/8	16 1/8	14 5/8
15 × 16	33 5/8	20 1/8	18 5/8
15 × 20	33 5/8	24 1/8	22 5/8
15 × 24	33 5/8	28 1/2	27



NOMINAL WALL THICKNESS	"T" OUTSIDE DIMENSION ACROSS FLANGES
6	5 15/16
7	6 15/16
8	7 15/16
9	8 15/16
10	9 15/16

BUCK SIZES	"W" WIDTH	"H" HEIGHT	"CW" CUT OUT WIDTH
15 × 12	33 5/8	16 1/8	32 1/8
15 × 16	33 5/8	20 1/8	32 1/8
2 - HI BLOCK	33 5/8	18	32 1/8
3 - HI BLOCK	33 5/8	26	32 1/8
4 - HI BLOCK	33 5/8	34	32 1/8



NOMINAL WALL THICKNESS	"T" INSIDE DIMENSION BETWEEN FLANGES
7 5/8	7 11/16
8 5/8	8 11/16
9 5/8	9 11/16 SHORT FLANGE ONLY

COMMERCIAL AND GARDEN LEVEL WINDOW INSTALLATIONS

with Prime

- **ALUMINUM HORIZONTAL or VERTICAL SLIDERS**
- **ALUMINUM or STEEL CASEMENTS**

Colorado Metal Products bucks are fabricated from heavy galvannealed steel. Its zinc coating prevents corrosion and provides an ideal surface for paint adhesion.

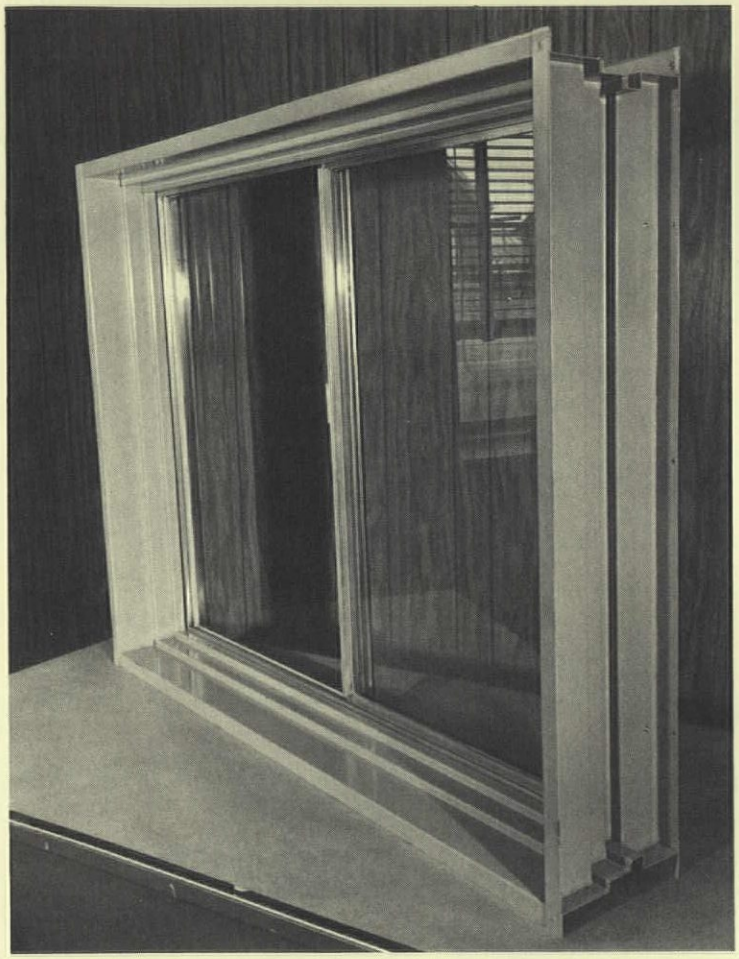
The unique tab and slot fastening method enables quick and easy assembly in the field, without the use of special tools.

Shipping costs are reduced drastically and inventory can be cut to a minimum by utilizing the multiple combination of k.d. parts.

All units are also available assembled with or without windows installed.

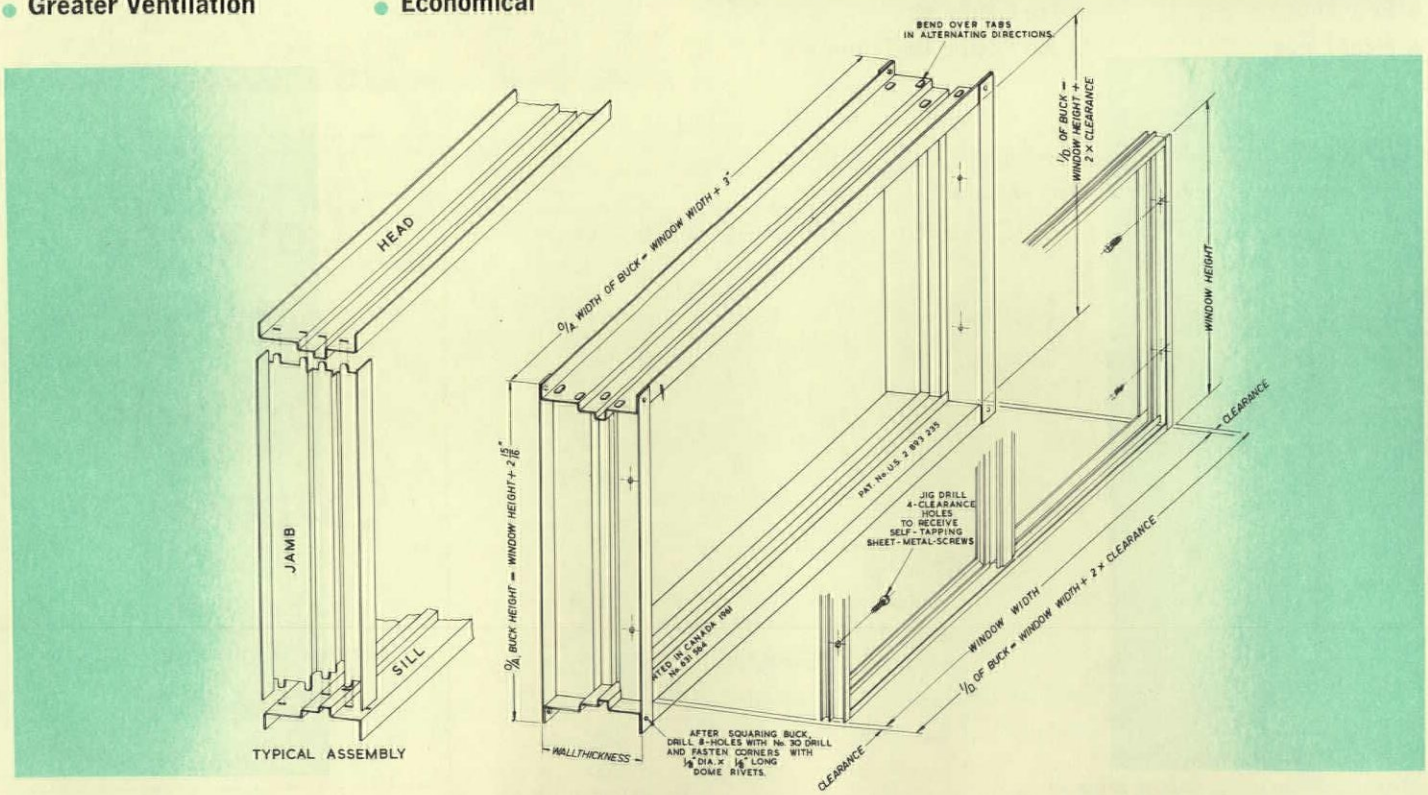
Available in 8", 9" and 10" wall sizes.

Bucks must be braced before pouring.



EXCLUSIVE FEATURES:

- **Emergency Exit**
- **Greater Light Area**
- **Greater Ventilation**
- **No Trim Required**
- **Neater Appearance**
- **Economical**



FULL WALL-WIDTH WINDOWS for PRECAST CONCRETE PANELS

ALUMINUM

- STATIONARY
- CASEMENT
- AWNING
- HOPPER

Colorado Metal Products designed this "AAMA"-approved window especially for use in 2" precast panels. Now the industry has found many other precast uses.

All sections specified shall be of Aluminum Alloy 6063-T5 having the outside section two (2) full inches in depth. The weatherstripped vents, designed to accommodate glass up to 5/8" thickness, have provisions for on-the-job installation after erection of the panels. Frames are made to order and can be arranged to have casement, awning or hopper vents.

Test results by The R. & D. Laboratories of The Portland Cement Association reveal that there is no occurrence of corrosive action when calcium chloride is not used. Steel, if present in concrete must not come in contact with the aluminum.

All exposed aluminum surfaces are tape covered to retain the satin sheen mill finish of the aluminum.

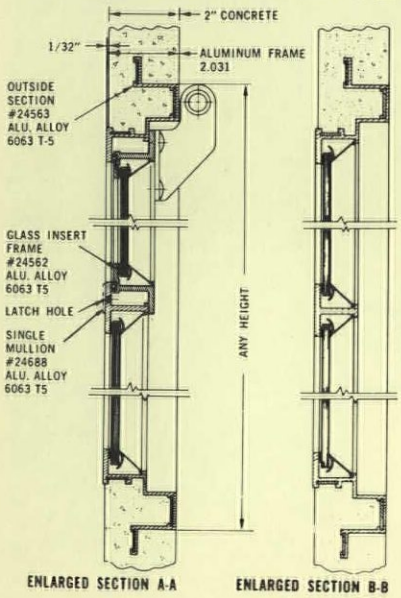
After concrete has cured, tape should be removed. Maximum economy achieved with stationary frames.

EXCLUSIVE FEATURES:

- Economical
- Neat Lines
- No Caulking
- No Fitting Or Trimming

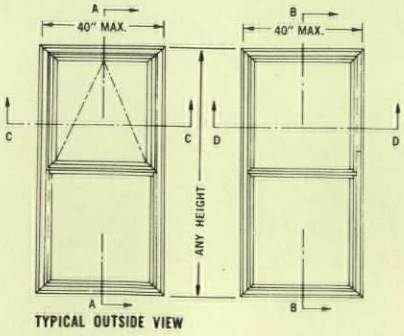
typical details: (showing awning installation)

AWNING-CASEMENT-HOPPER AND NON-VENT U.S. PATENT NO. 2,893,235

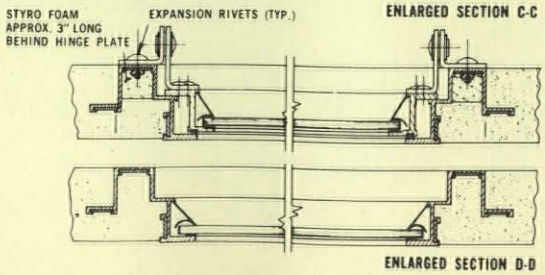


ENLARGED SECTION A-A

ENLARGED SECTION B-B



TYPICAL OUTSIDE VIEW



ENLARGED SECTION C-C

ENLARGED SECTION D-D

Colorado Metal Products Corporation

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"TEAMWORK"

The Key to Successful Construction

At the plate, in the on-deck circle, in the dugout—it's the team effort that wins the old "Construction Game"!

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Put "Petey"—the Colorado Pipe Trades U A trained journeyman plumber and pipe fitter in your line-up. It's a big league business—use the big league approach.

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building blocks

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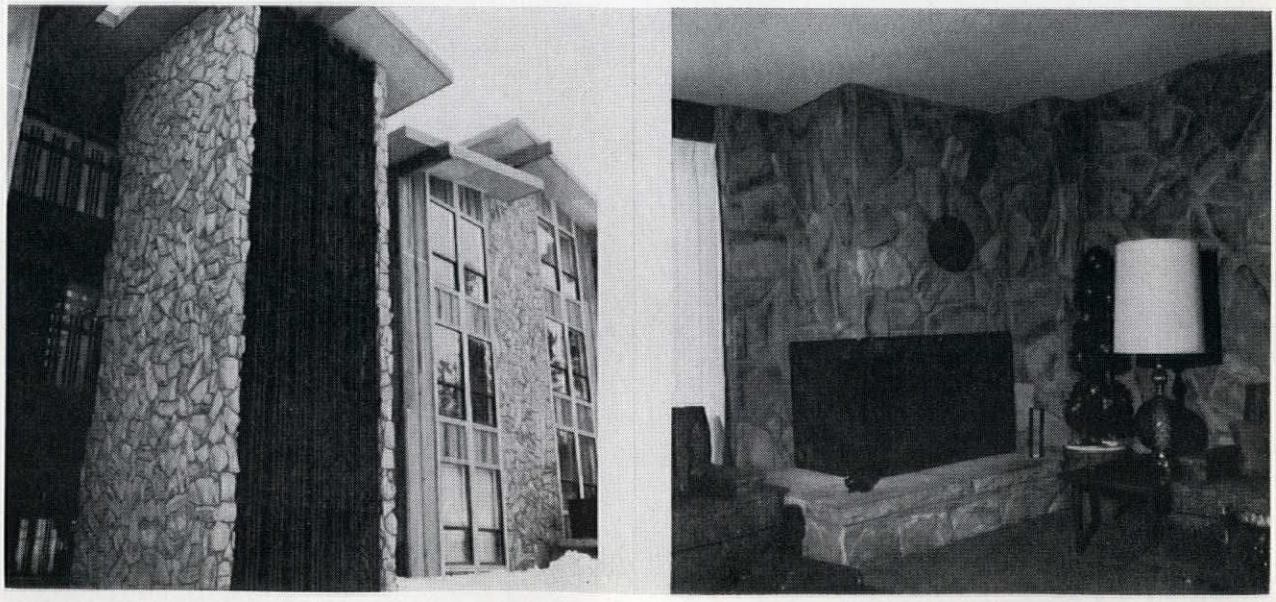
Manufactured through the new and exclusive Palisades process, developed from years of experimentation, each stone is an authentic and detailed reproduction of a carefully selected natural stone . . . so perfect that even the most experienced stone mason cannot tell the difference. But —"vive **some** difference"—your budget will know the difference!

Palisades Stone produced by Versa Tech Industries is truly competitive in price . . . and since it can be applied over any surface, it is ideal for either new construction or for remodeling. With the mortar, Palisades Stone weighs only seven pounds per square foot—and installation is up to 50 per cent faster than other stone.

It is, of course, weather and fire resistant, FHA approved, and will maintain its warm and beautiful color for always. Each stone is carefully inspected by Versa Tech, carefully boxed, 10 square feet to the box. Each box contains an assortment of stones meticulously selected by experienced architectural decorators for the most distinctive combination of color and texture. Nine colors are available in the two natural patterns—Driftwood and Petrified.

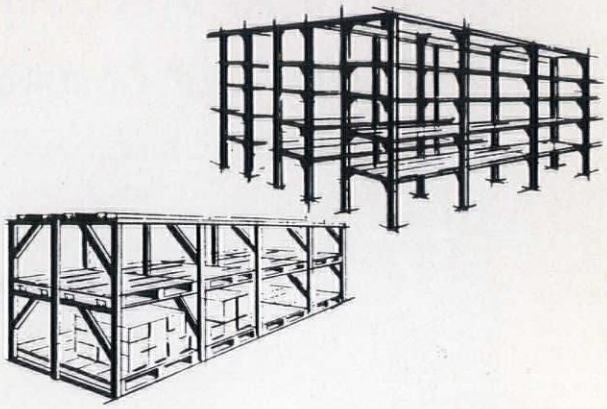
Just a final note about Versa Tech Industries, Inc., manufacturers of Palisades Stone and located at 1050 South Jason in Denver 80223. Chief executive of this new enterprise is to the construction-manner born, Ed Jones, Jr. Young Ed has grown up in building since his father and grandfather before him have been principals in the A. A. and E. B. Jones Construction Company — one of the area's oldest and most respected general contractors. Just contact Ed, Jr. for further information on how to create tradition—instantly—with ageless Palisades stone. It is equally effective in any type of building . . . commercial, residential or industrial —new project or remodeling job. It represents the artistry of stone masonry at its creative best.



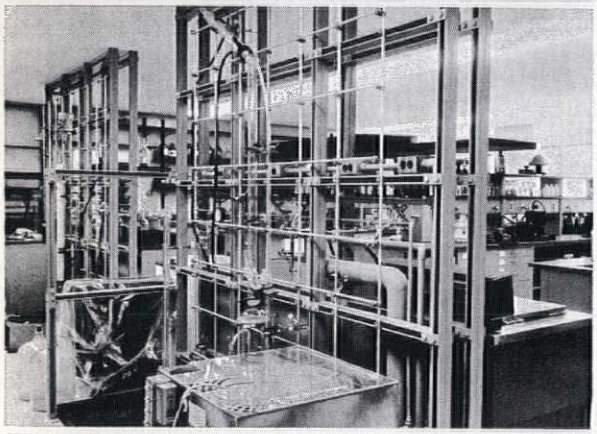
Palisades Stone was used on both exterior and interior by Architect H. R. Braun in the Ferndale Development Company's Lakeshore Condiminiums.

You can build or attach anything - - - with the **UNISTRUT®** *system*

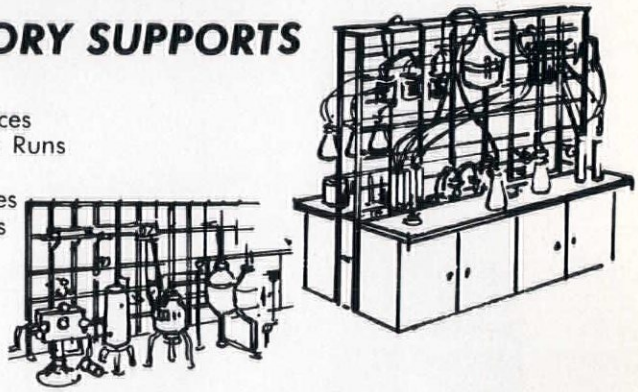
RACKS



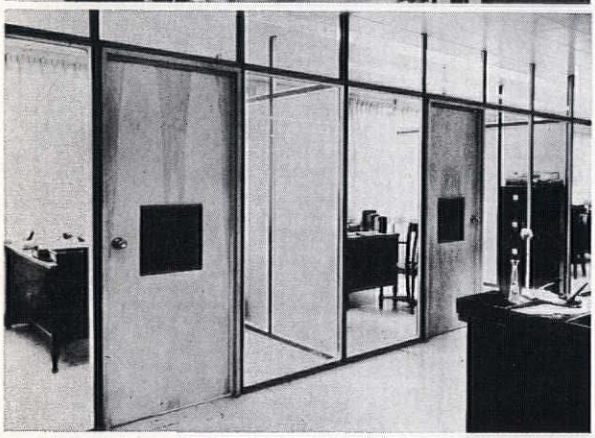
Pallet
Die
Sheet Material
Cable Reel
Production Material
Automotive Parts
General Storage
Bar Stock
Barrel
Furniture



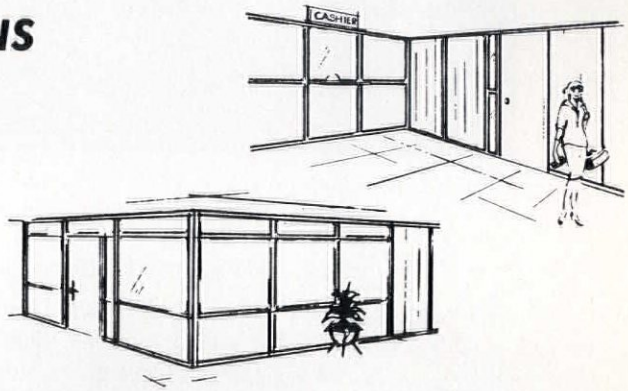
LABORATORY SUPPORTS



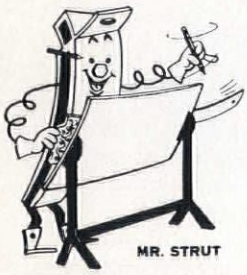
Under Floor Services
Overhead Service Runs
Raceways
Bench Top Services
Distillation Frames
Instruments
Glass Pipe
Hydraulic Line
Transformer



PARTITIONS



Floor to Ceiling
Door Height
Glazed Railing
Plain Railing
Tool Crib



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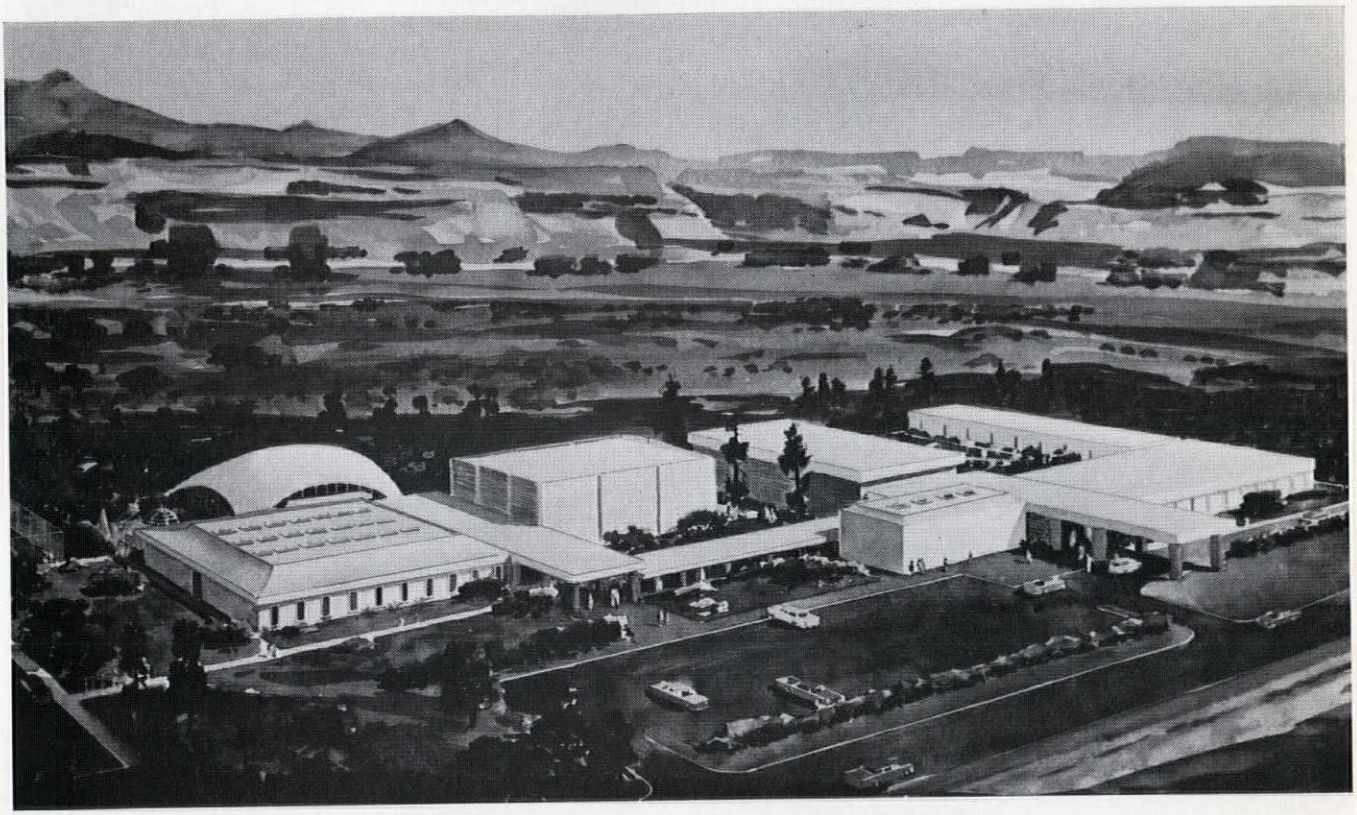
Southern Utes Project
Tourist and Community Center



architect: Lawrence A. Garcia and Associates, Albuquerque
James R. Cushing, Project Architect

engineers: Richard Weingardt & Associates, Sterling, Colorado/Structural
Wherritt Engineering Company, Durango, Colorado/Mechanical
Powell Engineers, Albuquerque/Electrical

general contractor: Flaugh Construction Company, Inc., Cortez, Colorado

delineation: Foster Hyatt, AIA, Santa Fe

The Southern Ute Tourist and Community Center is presently under construction in Ignacio, Colorado. This unusual project is really "two in one" and both will be owned and operated by the Southern Ute Tribe.

The Tourist Center encompasses a thirty-eight Unit Motel with a complete Lounge and Dining Room facilities, a Swimming Pool and an Arts and Crafts Museum. The cost will be approximately $720,000.00 partially financed through the Economic Development Administration.

The Community Center will contain an 84′ by 60′ Multi-Purpose Room, four classrooms, a reading room, kitchen and offices. As a part of the Community Center, a 28′ by 60′ Swimming Pool with Bathhouse will be built. The pool will eventually be enclosed and covered by the dome seen in the illustration. Also to be included are Outdoor Recreation and Playground areas with basketball, handball and tennis courts with playground equipment provided for the "younger set." This portion of the project will cost approximated $345,000.00 financed through the Department of Housing and Urban Development.

The combined projects are expected to have a considerable impact upon the economy of the area through increased tourism. It is difficult to find more beautiful surroundings than those of southern Colorado. You have to look a long way to find better trout fishing during the summer and, of course, fall and winter provide almost guaranteed deer and elk hunting. Both projects are scheduled for completion late in 1971.

scheduled:

neocon 3

June 23-25 will see **"neocon 3,"** the National Exposition of Contract Interior Furnishings in the spotlight at Chicago's Merchandise Mart. A broad and unique cross section of distinguished speakers will be at hand to discuss topics of timely import in the fields of architecture, design, lodging, education, health care and commercial facilities. Just a few of the subjects to be discussed are: Information Handling in the Health Care Field—Projected Changes in Hospital Construction: Feasibility for Change and Mobility—Student Life Styles and Their Impact on College Union Planning—Educational Settings for the '70's—The Development of a New Charisma in Shopping Centers—The Turn-Key Concept for Planning, Construction and Furnishing of Mass Housing Facilities—The Library is a Brain—Techniques of Large Office Space Planning.

Speakers have been selected only after careful and long consultation and the list includes among many distinguished participants—Dr. J. B. McCormick, Chairman, President and Medical Director of Pelam, Inc. and Laboratory Director of Swedish Covenant Hospital, Chicago; E. Todd Wheeler, FAIA, Senior Vice President, The Perkins and Will Corporations, Chicago; Eugene O. Ingram, Director of Purchasing, University of Michigan; Dr. Louise Bates Ames, Co-Founder of the Gesell Institute of Child Development, New Haven, Connecticut; Brice N. Lacy, Vice President, Omniplan, Dallas, Dean of the School of Architecture at the University of Tennessee and currently chairman of the AIA's National Committee on Research and Michael Brawne, English Architect and Author.

But these topics and these speakers are a mere sampling of the **"neocon 3"** Conference in Chicago. There will be, in addition, to the panels, seminars and presentations—a 2 million square foot display with every type of furniture for contract from all manufacturers of major office furniture, floor coverings and other products. To stimulate interest in this extraordinary industry meeting a number of Local **"neocon-3"** committees have been formed. In the Colorado area—Galen Seal, Jr. (Seal Furniture, Inc.) is Chairman of the committee which includes DeVon M. Carlson, AIA, Dean of the School of Environmental Design, University of Colorado; Richard P. MacLeisch, Executive Director of the Colorado Hospital Association; Richard M. Caudle, Past President of the Colorado/AID; Robert E. McGee, Director of Facilities, United Bank of Denver and Dr. Robert H. Johnson, Jr., Executive Secretary of the Colorado Education Association.

Of course, the best news of all is the Professional Excursion Program (PEP) which offers the maximum in economy in group travel at the same time maintaining the utmost in service without a trace of regimentation. The single fee of approximately $143.00, from Denver, for instance, includes round trip jet coach transportation, four nights at either the new Playboy Towers or La Salle Hotel, three breakfasts, daily transportation between the hotel and the Merchandise Mart, round trip transfer between O'Hare and the hotel, all taxes and gratuities and a gala Cocktail party. There are no registration or participation fees for **"neocon 3."**

Further information on PEP and on the **"neocon 3"** program may be obtained in Denver from Mr. Galen Seal, Jr. at 303—777-3071 and in Seattle from Albert Howell, Bank and Office Interiors, 206—MU 2-4664.

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(Since Symposia means an exchange of ideas—we provide this column for the bouquets and bulldozers — a chance to talk it over with your colleagues in the architecture/engineering/construction community. The welcome mat is out—address Symposia at 4070 Estes Street, Wheat Ridge, Colorado 80033)

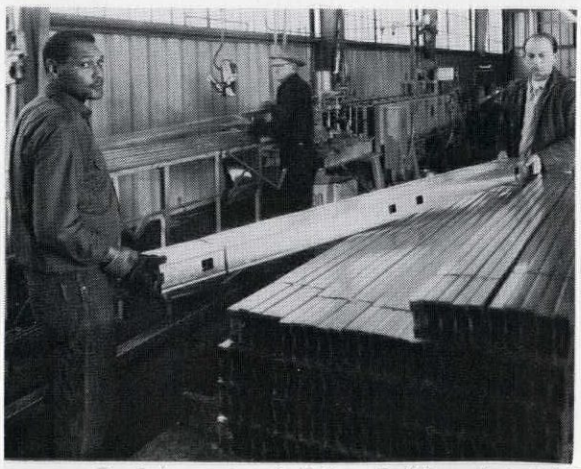
addendum:-
THE ARBITRATION EXPERIENCE

Gentlemen:

Having recently experienced my first arbitration proceedings, (by choice of both parties over court litigation), I feel compelled to discuss other issues with those readers who may have read the response written by Mr. Joe Boehning in your April 1971 issue on the subject.

It always seems the advantages are largely portrayed, so for those contemplating a leap into the arbitration chasm, permit me to discuss some other specific problems that became apparent, which are disadvantages. These are the rules of the ball game which are **not** spelled out:

1) Even though the arbitrator or arbitrators have the choice of applying rules of law or not, they apparently do not have to indicate their choice, prior to the hearing. If they decide to operate bound by law and rules of evidence, one faces the possibility of rejection of any material as evidence, unless witnesses are bodily present to permit cross-examination by the opposition. If you walk into the hearing you can find out then, that they will abide by rules of evidence and unless you have employed witnesses to testify, permitting cross-examination by the opposition, the panel can swiftly rule any other kind of evidence as inadmissable. So to be safe, one should go to the expense of employing expert witnesses, attorney, etc., so as to be prepared. This can be expensive and it no longer becomes the simple resolution of the problems. So, while the panel "need not apply substantive principles of law," I have been informed that the general practice is to the contrary, at least by the San Francisco offices of the AAA. Any appeal for extension to reprepare can be rejected, and was, in my case.
2) One gets the feeling that AAA likes to have at least one attorney on a three man panel, with the others selected from professionals qualified in the field in question. Their rules do not state this. However, their lists of candidates submitted for your selection, are clearly made out in this manner. So if you and your opponent are hoping to keep the resolution simple by sitting down solely with other construction people as the panel, forget it—the attorney present can make a big case out of it.
3) Keep the AAA on their toes—keep the fire under them. Don't let periods of time elapse with no activity. Interest charges usually accompany awards, and either party in paying his share of the award, will have interest charges which are figured from the time of contest of issues to time of award. So the meter still ticks away while delay occurs. Don't feel bad about pushing them because its easier to take static from them, than your unhappy client.
4) Watch for evidence of direct communication between your opposition and members of the panel, not the reverse. Though perhaps unintentional by your opposition, the rules are clearly against it, yet this is not always picked up and stopped by AAA.
5) Even after final award by the arbitrators, there might be appeal possibilities open, which are permitted by local laws not within the "errors of law or fact" catagory, or the rules of the AAA. California is an example. This could permit continued work on your part if your opposition does appeal, causing more interest charges, more of your time and that of your attorney's. So review the local appeal possibilities through the law of the State, before making the decision to go to arbitration.



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I do not intend the above remarks to be critical of the role arbitration can play, but merely to point out those problems which can be encountered, that were not specifically detailed in the article.
Very truly yours,
James A. Risser, Architect
URBCO International
Phoenix, Arizona

The pros and cons of the Arbitration Experience has been a frequent topic in this column since Neal Carpenter's original commentary in October, 1970. A recent telephone conversation with Mr. Helmut Wolff of the American Arbitration Association in Dallas, Texas indicates there is more to come.

We recently asked Editorial Board Member, R. James Noone (Big Jim) for a photograph for use in this Birthday issue—his reply is, we believe, "too much" to hold under wraps. To wit:
Fletcher and Betty:
At a recent board meeting of the "R. James Fan Club" we passed two significant and profound resolutions! !
No. 1: We salute Symposia, its sire and dame and wish it the successful future fifty year reign it has earned and deserves.
(Motion passed 5 to 4 . . . that should spook you!)
No. 2: We agreed to part temporarily with the rogue's gallery print of a famous used-car salesman so that you could use it as you see fit . . . probably to patch a flat tire or something.
Further, we resolved to enroll you as honorary members of the "rjfc" (see above) and have included the secret scroll of this clandestine organization. You will note that all names have been removed to protect the guilty.
(Motion passed 1 to 0 . . . after the members left.)
With genuine affection for Fletcher and Betty,
R. James

Although, Jim has only recently admitted us to honorary membership in the "rjfc"—we've been ex officio for YEARS!

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Courtesy—Artist John Roach

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THE BID DEPOSITORY

Since the first of this year, Symposia's Board Member in Las Vegas, Nevada has been telling us about the newly initiated Bid Depository in Southern Nevada. He wrote at that time — "Perhaps in the near future, we can submit an article on this. It is doing well enough to put before your readers." Now — as promised — the article itself authored by Max Christiansen, Executive Director of the Southern Nevada Air Conditioning and Sheet Metal Trades Industry Program. Comments Walter Zick . . . "It is working quite well and seems to be the best answer to bidding procedures here which have been more or less in dispute for years." If you are interested in more detailed information, we are certain Mr. Christiansen would be willing to supply same . . . he may be addressed at 1937 Western Avenue, Las Vegas — 89102.

by Max Christiansen

WHY

In January 1970 a meeting was held with committees from the Associated General Contractors, National Electrical Contractors Association (NECA), Las Vegas Chapter and the Southern Nevada Air Conditioning and Sheet Metal Contractors' Association to discuss the major problems of the Industry. Without exception all agreed that the biggest problem was "bid shopping" and "bid peddling," and that the only way to curtail these unethical practices was to open a bid depository. Letters were written to various Bid Depositories asking for their rules and regulations and a committee from the Southern Nevada Air Conditioning and Sheet Metal Contractors' Association traveled from Las Vegas to Tampa, Florida to Salt Lake City, Utah to Fresno, California to learn the operations of the various Bid Depositories.

Through the assistance of our local attorney, as well as the Sheet Metal and Air Conditioning Contractors' National Association's attorney, the rules and regulations, as well as the operation of the Southern Nevada Sub-Contractor's Bid Depository were established and on June 12, 1970, the first project was bid through the Bid Depository, with three sub-crafts participating (air conditioning and sheet metal, electrical and glazing). Since that time we have extended our services to seven sub-crafts, including air-conditioning and sheet metal, plumbers, electrical, glaziers, ceramic tile, steel and masonry. To date we have handled forty-nine projects and have had a successful operation due to the cooperation of the sub-contractors, general contractors and architects.

SUB-CONTRACTOR BENEFITS

1.) The Bid Depository prepares the bid forms for our seven participating sub-crafts, indicating the sections to be bid. This system clearly shows that all sub-contractors are bidding precisely the same material and labor.

2.) The sub-contractors bid four hours prior to the generals bid time. Up to one hour before the general bid time, a sub-contractor may withdraw his bid should he find he has made an error in computation. The sub-contractor may only withdraw his bid. His bid may not be altered or changed in any way after being deposited in the locked bid box at the Bid Depository Office.

3.) The sub-contractor is assured that the low bidder through the Bid Depository will be awarded the contract, providing, of course, that the successful general contractor has used the facilities of the Bid Depository for his craft.

G. C. BENEFITS

1.) The General Contractor now receives his sub bids from seven crafts at one time — at one place. He receives these bids four hours prior to his bid time. This gives the general contractor ample time to properly put

together his bid to the owner, eliminating the last minute telephone calls and confusion that has existed in the past.

2.) All bids are written bids, rather than over the telephone, eliminating possible mistakes.

3.) Bondable sub-contractors — allows ample time to check with bonding agents to insure the General Contractor that the low subs are bondable.

4.) Through the newsletters put out weekly by the Bid Depository, the general contractors are receiving more competitive bids had they solicited them individually.

ARCHITECT/OWNER BENEFITS

1.) Our weekly newsletters listing all upcoming projects handled by the Bid Depository reach our seven crafts as well as all General Contractors in the Greater Las Vegas area. Many out of town contractors are on our mailing list along with all local architects and suppliers, making our coverage of upcoming projects one of the most comprehensive in the area. This assures the owner and architect of good competitive bidding, both from the sub-contractors and general contractors as well. Competitive bidding results in a better price to the owners.

2.) Addendas — When the Bid Depository is notified of an addenda, we immediately notify all sub-contractors of the addenda or any other changes pertinent to the project.

THE ARCHITECT'S ROLE

At the present time we rely heavily on an outside service for information. If the Architects would give us first-hand information on all projects being completed for competitive bidding, we could eliminate the possibility of error in transmittal of information to the sub-contractors and generals on all project information. To insure prompt, accurate information from Architects to all bidders, Architects could supply the Bid Depository with all information on upcoming projects. The Bid Depository would publish this information in our weekly newsletter. This procedure would eliminate time delays and transmittal errors on current projects.

In the past, many projects have been scheduled for General Contractors' Bid Openings on the same date. Architects know from past experience that when several projects are bidding the same day, or in some cases, even the same week, the bidding will be limited. The cause for the limited bidding is that the sub-contractors and general contractors cannot prepare their bids on multiple projects when bid dates and times are on the same day or within two or three days of one another. When this situation arises, both the subs and the generals will bid only certain projects. If the bid times were separated by several days, both subs and generals would have sufficient time to bid on all projects, thus assuring the Architect and owners of more competitive bidding. The Bid Depository could assist the Architects in scheduling bid dates by being able to give the Architects a listing of other projects being bid during that time period. This could be done only if the Architects would keep the Bid Depository informed of all upcoming competitive projects.

The Architects support of the bid Depository would surely benefit the entire Industry immeasurably.

In this endeavor — as in all processes of the Construction Industry — cooperation is the only road to success. We would hope all segments of the Industry would make a meaningful contribution to this effort — it only takes team-work to win the game.

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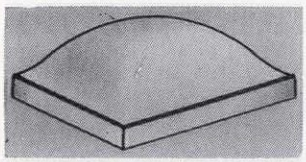

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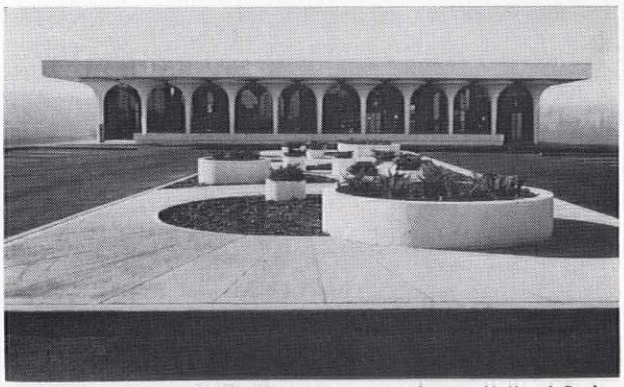

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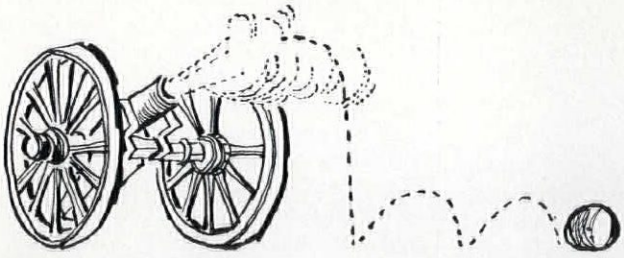

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From the very outset in June of 1966 — these men and these businesses have shared our enthusiasm for the precept that communications between all segments of the Construction Industry are not just important but vital to the health, wealth and good fortune of us all.

We all believe in our future — at this point in time, the Symposia region, with some small exceptions, is the brightest spot in the national construction picture. We believe the West has some rather special advantages . . . the space, the time and the talent so grossly misspent in other areas is still ours to mold into an exciting and viable environment. The architect — the engineer — the planner — the contractor all form a team dependent upon the industries which produce the innovative "tools of construction" making possible advances into a new, technological society where every member may profit in better housing, working conditions and a fuller life.

So — we at Symposia salute our advertisers — all faithful plus one hundred and fifty of them making it possible for us to follow an admonition written by Ed Bacon on the fly-leaf of our copy of his book "Design for Cities" . . .
"To Elizabeth and Fletcher Trunk,
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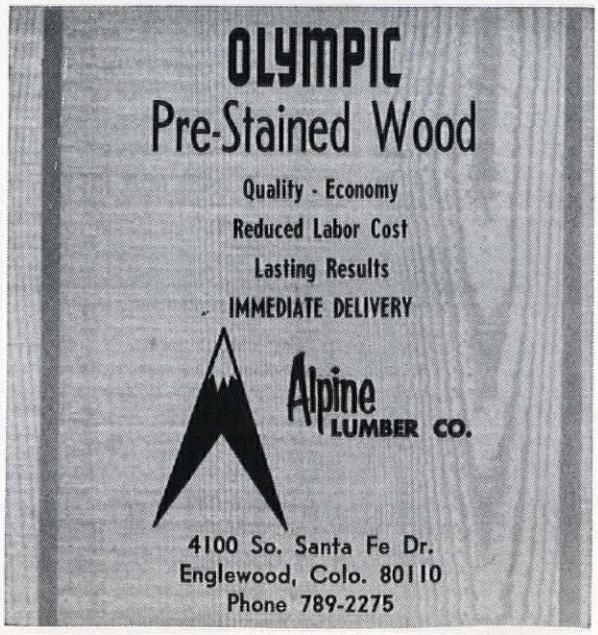


OUR TEAM—RIGHT HERE!

Top Row (left to right) Warren Edminster, AIA/CSI, Arizona; Cal Hoiland, AIA, Montana; Ronn Ginn, Urban Affairs; Editor Elizabeth Trunk; F. J. MacDonald, Landscape; Sidney W. Little, FAIA, Arizona.

Second Row (left to right) W. Patrick Dulaney, AIA, Colorado; O. James Barr, CSI, Colorado; Publisher Fletcher Trunk; H. Robert Wilmsen, FAIA, Oregon; Maxwell Saul, FCSI/AIA, Colorado.

Third Row (left to right) Richard Perrell, CSI/AIA, Arizona; Elden Talbot, CSI/AIA, Utah; R. James Noone, CSI, Colorado; Robert Hamill, AIA, Idaho.

Fourth Row (left to right) Don Decker, AGC, Colorado; John Hoffmann, CE/I, Idaho.

Fifth Row (left to right) F. Lamar Kelsey, FAIA, Colorado; Walter Zick, AIA, Nevada.

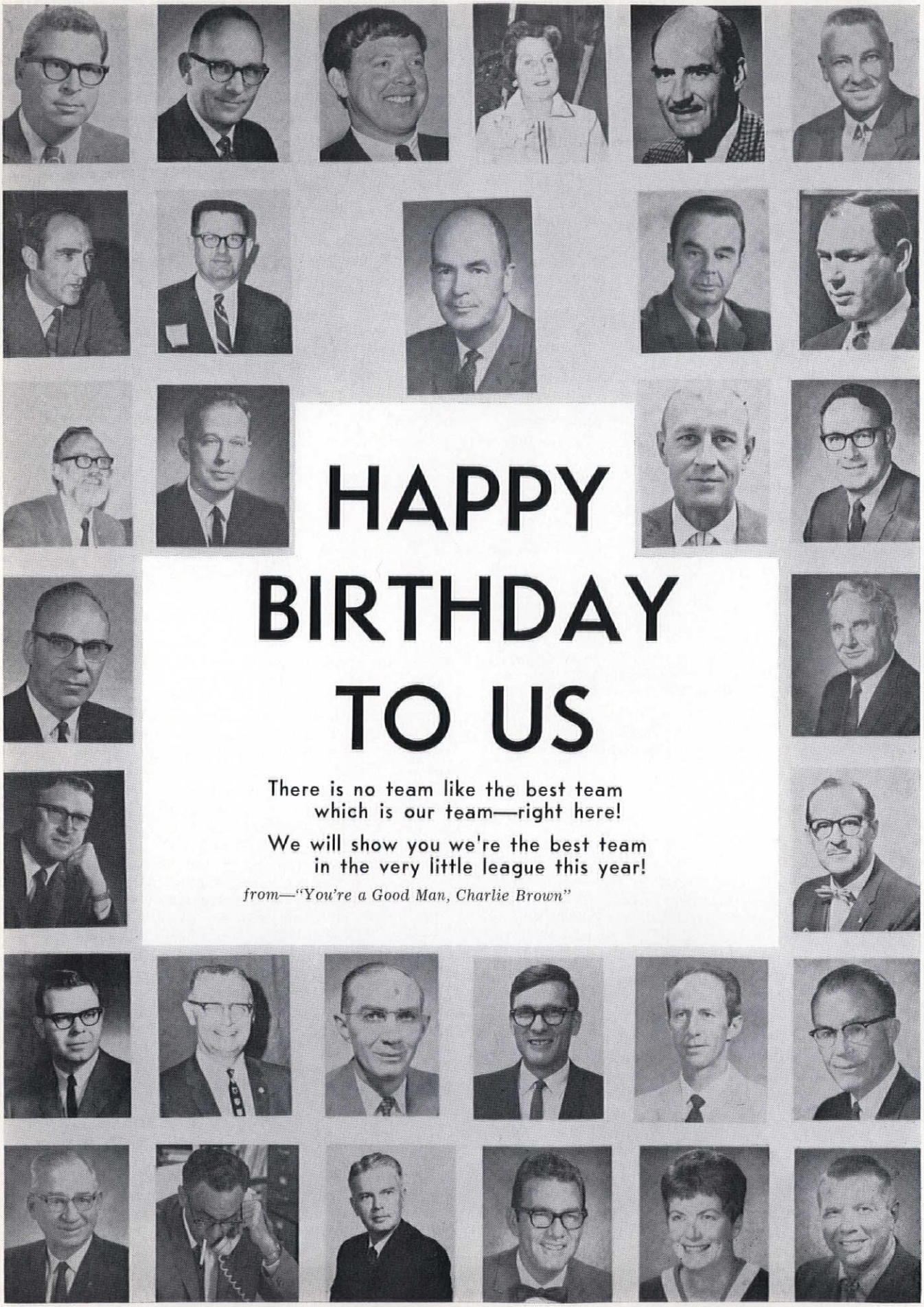
Sixth Row (left to right) Gerald Deines, AIA, Wyoming; Thomas Keeton, Jr., CSI/PC; Bradley P. Kidder, FAIA, New Mexico; Joe Boehning, AIA, New Mexico; Robert Fehlberg, AIA, Montana; Edward Parsons, AIA, Nevada. Bottom Row (left to right) N. A. Nelson, AGC, Wyoming; James R. Cushing, CSI, New Mexico; William Hawes, CEC, Colorado; Ashley Carpenter, AIA, Utah; Nancy Carpenter, WAL/NAWIC, Utah; Robert J. Schmidt, FASCE/CSI, New Mexico.

symposia/about the cover

A set of very happy circumstances has given us a most appropriate cover for our Happy Birthday issue of Symposia. Our name, of course, stems from the Greek — John W. McHugh, AIA, begins our annual summer vacation in that lovely and historic land — and there we have it! The water color sketch is of the Temple of Poseidon, and how it came to be is all related in the first installment of the Greek Tour in this issue.

John must certainly be numbered among our most valued friends, in addition to the summer vacations, he has reported on the doings of the W.C.A.R.B., prepared design studies, and included us among his legion of admirers. Actually, John is so talented it almost frightens one — and has such a glorious gift of Irish warmth and wit that his company is pure pleasure. He is, of course, an architect in private practice with our beloved Board member —— Bradley P. Kidder, FAIA, in Santa Fe, New Mexico. He is married to the English born pianist, the former Gillian Wethey and the doting father of two young McHughs — Patricia and Colin whom, we are sure, will follow the challenging tradition. John is a former Chairman of the W.C.A.R.B., and is presently serving on the National AIA Committee on "Human Resources."

We count ourselves singularly fortunate in having John McHugh as a faithful contributor to these pages.



HAPPY BIRTHDAY TO US

There is no team like the best team
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We will show you we're the best team
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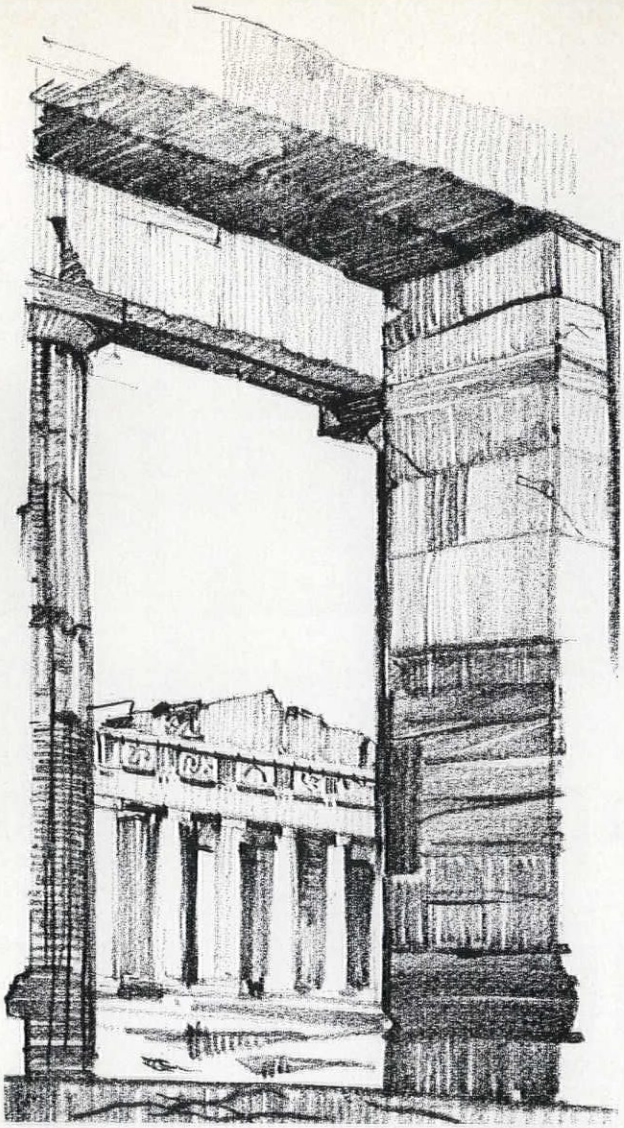
from—"You're a Good Man, Charlie Brown"



. . . the Parthenon speaks with eloquence to all who look upon it, no matter what their written language.

(There was no better way to celebrate Symposia's Birthday than to have the delightful John McHugh, A.I.A. of Santa Fe, New Mexico on hand to conduct his usual vacation time trip on Symposia's pages. With John, we have walked through Ireland, looked briefly at Merrie England and poled a gondola through the canals of Venice. This year's summer safari is just a little longer—and, we believe, a bit more significant as John—sketchbook in hand—takes us to the birthplace of classic architecture—Greece. We arrive in Athens this month, with more to follow in July and August. Fasten your seat belts, please—we are on our way to the Aegean Isles.)

GREECE

Where Buildings Are Books and Life Bubbles Over

John W. McHugh, A.I.A.

IF YOU HAVE a lifetime to spare, I would suggest the study and practice of Architecture as an excellent preparation for a tour of Greece. There is so much reading to do about the life of Greece, and easily the best books are the buildings. You don't have to learn an alphabet or a classic tongue; the Parthenon speaks with eloquence to all who look upon it, no matter what their written language. But a bit of background helps, and that's where the Architecture comes in. The language of buildings, like other languages, conveys more to those who are skilled in reading it—and what a large, open, and glorious library are the buildings of Greece, from the Lion Gate to the Athens Hilton! Just as the wild and lonely beauty of Ireland or New Mexico will make a humble philosopher of you so the glory of Greece will excite you, renew your faith in men, and make you proud to be a citizen of the West. And you'll have the time of your life into the bargain.

MY WIFE and I prepared for this great adventure by reading all of the **words** we could before leaving home, and by stocking up on **Courvoisier** in the plane between Vienna and Athens. We arrived in the evening of a perfect, cool day. The bus to town passed so many famous sights that I could hardly contain myself and was a poor conversationalist for my seat-mate from Los Angeles. He was a cheerful extrovert type whose boisterous wife kept pawing through her handbag to produce tickets, cigarettes, wash-and-drys, and "a coupon for an island." The bus dropped us at the downtown air terminal of SAS where everyone seemed to be speaking some sort of heathen language and the traffic was fierce. Being I thought, an experienced traveller, I stepped into the street and hailed a taxi to take us to our hotel. We had to step smartly, for seven passengers complete with luggage piled into my taxi, and then I had the wildest and most amusing ride of my life. Rush hour in Athens is from seven to eight in the evening, and at seven-thirty, we were right in the middle of it. There seemed to be no traffic rules, no "After you, my dear Alphonse," and no such thing as keeping to one's own lane. Driving in Greece, like life in Greece, is a wild game with "divil take the hindmost." Our driver plunged between great busses which then slowly closed in from both sides so that we had to shoot out like a bar of wet soap. We made right turns, left turns, U-turns, and pirouettes—all with seven people and baggage sitting in each other's laps. I was in the front seat with a retiring little grey gentleman (d'you know what I mean?) from Austria, the driver, and four suitcases. After the first few minutes of terror I left my fate in the laps of the Olympian gods and had a whee of a time. Nor did things get any better. In Athens, you see, when he drops off a passenger, the driver simply picks up another to keep the taxi full. We drove all over the city, catching a glimpse of the lighted Acropolis out of the rear window one minute (between the puce-coloured faces of the rear seat passengers) and, almost immediately afterwards, there was the Acropolis again this time out of the windshield or even the sun top. When we finally arrived at our hotel about twenty minutes after we started,

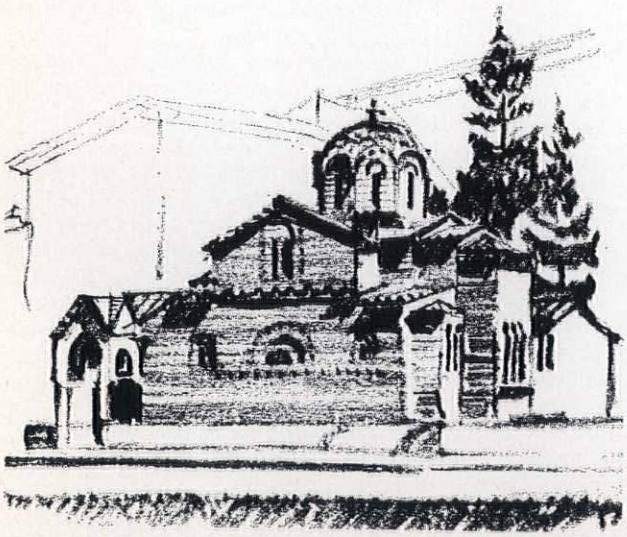
we could see that it was only half a block from the air terminal.

OUR HOTEL, which was cheap but adequate, had a tiny third floor balcony with a view up and down Voucourestiou Street. It was just large enough for two straight chairs, and this is where we enjoyed our cognac. At least, **I** enjoyed it. Being an architect I had great faith in other architects' ability to make things stand up; but I don't think that my wife really trusted that balcony, deep in her heart of hearts.

HAVING decided in advance that we would always eat the food and drink of the country, we found that much of the Greek food is delightful and not at all like that in Greek restaurants back home—and that some of it could be described as a Greek Tragedy. The ordinary domestic wine seems good if never great, and I even began to like the resinous local stuff by the time we left. The **Ozo,** a very strong spirit tasting something like Absinthe, certainly bears out the "candy is dandy, but liquor is quicker" idea.

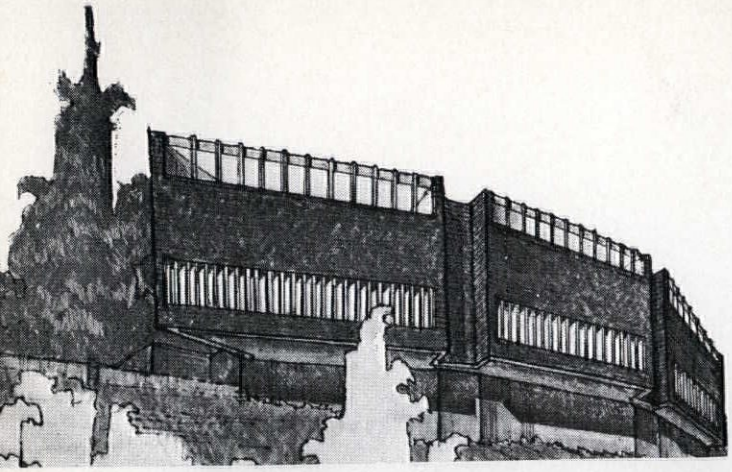
AT EVERY spare moment I was wielding a pencil. This was a great satisfaction to me as all my life I had wanted to sketch the Parthenon — doesn't everybody? Ancient and medieval Greece are, of course, all and more than one expects them to be, but modern Athens is a great surprise. It is a city of balconies and one teeming with bubbling life. This is not the busy life of Venice or Chicago, nor the orderly life of London. It is an unselfconscious, open life that seeks out experiences, gobbles them up, and appreciates the same enthusiasm in others. But we were to have time here after traveling about the country, so after three days we piled into a **Cortina** provided by Avis, and in this lively little bug we toured Attica for a week or so. No reservations anywhere, we trusted to luck, and luck was always with us. Each morning I would arise at first light to do a sketch or two before breakfast. (My industry flagged a bit as the day wore on.) I believe that this contributed something to international relations, for the Greeks seem to have an idea that Americans flit from Hilton to Hilton in air conditioned Cadillacs. Here was a real live American sitting in the dirt at six o'clock in the morning, and apparently thinking enough of their country to make a sketch of it. A crowd would collect — always. We had no words, but not even an alphabet in common; but we seemed to get along fine, speaking a sort of Mix-O-Lydian, helped by sketches. When I wanted something for which I didn't know the word, I'd simply draw a picture of it — and someone would bring me a beer! The language did make for some difficulty in driving, however. The place names on the road map were in the Latin alphabet, while all of the road signs were in the Greek. This made both the road signs **and** the maps useless until we settled down and learned the Greek letters.

. . . modern Athens is a great surprise. It is a city of balconies and one teeming with bubbling life. The Plaqua District in Athens.



. . . tiny Byzantine Church in Athens.

SOUTH FROM Athens is a sunny blue-and gold landscape of lowish ochre coloured mountains hung with olive groves and vineyards, all cascading to a sapphire sea. At the end of this road, on a bluff about forty miles from the capitol, stand the ruins of the Temple of Poseidon — tall golden columns against the sky. What a welcoming sight this must be for returning sailors. I made a watercolour sketch of this while Gillian read the history of the place and kept me **au fait** with the happening of twenty-five hundred years ago. Back in Athens we climbed the Acropolis in the rain. It was a warm, gentle rain, and the marbles are rich and luminous when they are wet; so this was a memorable experience indeed. Some occasions make a more vivid impression than do others. This was one, and another which was to follow — the kaleidescopic day on which we drove from Thivai to Delphi.



The Abbey Conference

Mount Angel Abbey

April 16-17, 1971

by: H. Robert Wilmsen, FAIA

A year ago the Alvar Aalto-designed library at Mount Angel Abbey on a hilltop northeast of Salem, Oregon, was auspiciously dedicated. On April 16 and 17, this beautiful building housed a two-day conference of invited architects to review one of their projects in terms understandable to the man on the street, and how it has effected its environment. Architects came from as far away as Boston, and as close as San Francisco, Seattle and Portland. Also participating in the conference were Senator Mark Hatfield; State Highway Commission Chairman Glenn Jackson; AIA Journal Editor Robert Kohler, M.I.T. Chairman of the Department of Architecture Don Lyndon, and Oregon's best-known architect, Pietro Belluschi, now of Boston.

The public was not invited to the conference, but a good number of well-known Oregon corporate presidents and the Oregon Art Commission were in attendance.

The conference in acuality was a homage to Pietro Belluschi, whose influence on Northwest architecture has affected many of those architects who were in attendance. Secondly, it unveiled to many of those in attendance their first glimpse of an Alvar Aalto-designed building. The participants and their wives or husbands were housed in this Benedicine Monastery's guest and retreat house, and were hosted by Father Barnabas Reasoner, OSB.

Every word spoken and each slide projected was recorded by two TV crews for future viewing on educational and public stations. Father Barnabas' hope is that the Mount Angel Abbey and its Aalto Library will become increasingly a cultural gathering spot for those involved in contemporary intellectual problems and solutions.

(Our Man in Oregon further supplied us with a large "care" package of material on the beautiful Mount Angel Library—and the Conference itself. It is this excellent material which makes our brief summary possible.)

In every way, the April Mount Abbey Conference was a most prestigious event—the setting conceived by the distinguished Finnish artchitect, Alvar Aalto—AIA Gold Medalist in 1963 and the participating protagonists whose names read like "Who's Who" in American Architecture.

Following dinner in the Abbey Guest House on Friday evening, the select group gathered in the Rare Book Room of the Library to spend the evening with Pietro Belluschi, FAIA, presently of Boston—formerly of Oregon. Born in Italy, Mr. Belluschi came to the United States on an Italian scholarship to Cornell where he studied engineering . . . "I didn't go to architectural school," he recalled, "I was an engineer—a terrible one." On the advice of the Italian Ambassador, he did not return to Italy following graduation but set out to see some of the country. In Idaho, he worked in the mines for $5.00 a day—and saved, he stated proudly, "$600.00." In Portland, Oregon, 1925, he became a draftsman for architect A. E. Doyle. In 1943, he opened his own practice, but in 1951, returned to the east as the Dean of the School of Architecture and Planning at the Massachusetts Institute of Technology. In addition to Fellowship in the American Institute of Architects, Mr. Belluschi is a Fellow of the National Academy of Design, Danish Royal Academy of Fine Arts and the Academy of Arts and Sciences. He reminisced at Mount Angel of his early years in Oregon, and his slow appreciation of the great forest—"I got my architectural sense there."

On Saturday morning Marion Dean Ross, AIA, of the University of Oregon briefly traced the history of Oregon Architecture from its beginning to the present. Beginning at 10:30 a.m., and with Robert Koehler, Editor of the AIA Journal as Moderator, four Northwestern Architects delineated a problem and a solution—a presentation beamed to "the man in the street." Participating were Vernon DeMars, FAIA, of DeMars and Wells, Berkeley; Paul Thiry, FAIA, Seattle; Fred Bassetti, AIA, Seattle; John Storrs, AIA, Oregon.

In the afternoon, the presentation—Modern Architecture: A Statement continued with David Pugh, FAIA, Partner and resident manager of the Portland offices of Skidmore, Owings and Merrill; Robert Wilmsen, FAIA, Wilmsen, Endicott, Greene and Bernhard of Portland; Norman Zimmer, FAIA, Wolff, Zimmer, Gunsul, Frasca, Ritter, Portland; Paul Kirk, FAIA, Kirk, Wallace, McKinley, Seattle and Pietro Belluschi, FAIA.

At 3:00 in the afternoon, Marjorie Wintermute, Architect, Interior Designer and Educator and also General Chairman of the Abbey Conference, introduced a discussion of the planned environment of the future. Don Lyndon, Chairman of the Department of Architecture at M.I.T. served as the moderator for a panel which included Lyle Stewart, a highly experienced planner and a member of the firm of Patterson, Langford and Stewart of Medford; Elizabeth K. Thompson, FAIA, Editor of Architectural Record; Howard Vollum, Corporation Executive; Glenn Jackson, Utility Executive, Fred Bassetti and Senator Mark Hatfield. Also participating in the conference—Mary Alice Hutchins, Walter Gordon, Henry Klein and Jo Stubblebine.

The Conference achieved a remarkable balance of idealism and reality encompassing as it did the gamut of the environmental field . . . and the very real concern for its preservation in the Northwest. Housed as it was in the Library of an Abbey—the synthesis of the Conference is perhaps best expressed by Pietro Belluschi when he said . . . "We can't despair for the future. I'm getting more religious in my old age. I recognize more laws that are beyond our comprehension. Everything that happens is part of the whole. We must be concerned with the trees, grass, the total landscape—this is what people feel. We have to work with cities as cities and provide for the pedestrian. This is what our job is."

"Construction Industry Communications"

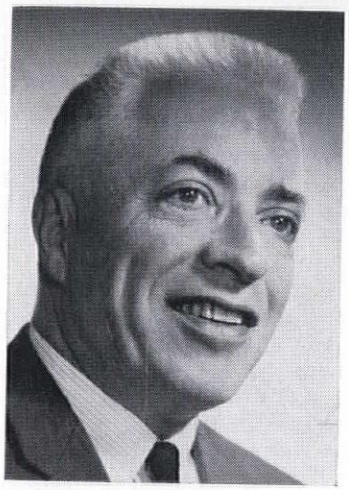
Anaheim, California

June 7.9, 1971

"Communication" is the keyword for the 1971 Convention of the Construction Specifications Institute's 15th Annual "gathering of the clans" in Mickey-Mouse land this June. This 1971 Program and a host of distinguished speakers will stress the rational approach to specifying; methods of compiling the input—the technology and information—needed; of distributing, storing, retrieving, and applying this information; and of the preparation of the communicating vehicle—the Specification.

Opening with a Host Chapter Reception in the Grand Lobby of the Anaheim Convention Center on Sunday evening—June 6th— Monday, Tuesday and Wednesday's technical sessions are timed to the split-second and filled to the brim with "communications."

An Exhibitor's Briefing will be held at 8:00 a.m. on Monday, June 7th, by Joseph A. Gascoigne, Executive Director/CSI and National President, Ben F. Greenwood, FCSI, will be in charge of the opening formalities at 9:00 a.m. **Clyde V. Pearson** will outline the program of the Convention and activities of the 1971 program in "Coming Attractions." The Keynote Address will be delivered by **Robert J. Oster,** Senior Economist of the Southern Division/Bank of America. "The Changing Construction Scene" will underline the changes occuring within the industry which have taken place as a result of industrialization and automation—and the changes necessitated by the production demands and technical innovations of our society.



Henry B. Baume, F.C.S.I.
President, The Construction Sciences Research Foundation

On Monday afternoon a Panel Session on "Communications, The Computer, and the Specifier" will be conducted with **Joseph H. McPherson** as Moderator. The Panelists are Paul T. Heineman, CSI; James Davis and Bruce Erts with A. W. Cluff, FRIBA, SWAC summarizing the session.

Conferees will be "up and at 'em" at 8:30 a.m. on Tuesday, June 8th—examining "Tools for the Specifier" —a presentation moderated by Denver's own **Henry B. Baume, FCSI**—former president of the Institute and presently serving in that capacity for The Construction Sciences Research Foundation. This session of course, will be devoted to COMSPEC® and SPEC-DATA II®, with a discussion of possible expanded versions and uses of the SPEC-DATA concept and its linking with the COMSPEC program. Richard Godwin, Senior Vice President of Pacific International Computing Corporation will make the COMSPEC presentation with the SPEC-DATA portion of the program from Charlie Wical and Conrad O'Connor of Information Handling Services. On Tuesday afternoon it's "Do Your Own Thing"—unique perhaps to the majority of convention goers since the audience will be divided into work groups and actually experience and use the master specifications and C.S.I. programs. Members from CSI Region 10 who were present at the Regional Conference in Colorado Springs in February participated in very much the same sort of program on the closing day of the meeting.

A Membership Forum will be held at 8:00 a.m. on Wednesday, June 9th—an informal discussion of Institute affairs for members only and conducted by Ben F. Greenwood, FCSI, CSI President.

A presentation of new communications systems being successfully used in the construction industry will be treated during the 9:00 a.m. session which is titled—"Auxiliary Programs—New Tools." **Terrell Harper, FCSI,** is the Moderator with Stephen A. Kliment and Ken H. Evans also making presentations. "A Look Into the Future" or "How We Can Harness the Tools for Our Use" will conclude the Wednesday morning program. This discussion of future trends and directions in construction communications will feature **Arthur J. Fox, Jr.,** Editor, Engineering News-Record. The Institute's Annual Meeting will be held on Wednesday afternoon which will include the presentation of Awards and Officer Reports.

The final event of this year's Construction Specification Institute Convention will begin with the President's Reception at the Anaheim Convention Center to be followed by the Banquet at which time Honors and Awards will be presented and "tripping the light fantastic" will conclude the evening's festivities. In conjunction with the 15th Annual, there will be an Exhibit of the "tools of construction"—hundreds of products from major construction supplier firms throughout the nation. Luncheon throughout the "working and learning" sessions on Monday, Tuesday and Wednesday will be served in the Exhibit area.

"Flexing its industrial muscles beside the world's busiest waterway, energetic and cosmopolitan Detroit is a singularly appropriate place in which to examine 'The Hard Choices' confronting America. From the early technology displayed in the Henry Ford Museum to the bustling automobile assembly lines, one can trace the emergence of choices—and new problems—in economic policy, transportation and environmental quality."

President Robert F. Hastings, FAIA — Invitation To the 1971 Convention & National Building Products Exposition

THE HARD CHOICES

DETROIT, MICHIGAN

JUNE 20-24-1971

THE HARD CHOICES

1.) Will Americans accept a national program for urban growth?

Wednesday morning—June 23

Businessman, elected official and student of population trends, **Robert K. Andras,** will be the principal speaker at this first Theme Session. The Hon. Robert Andras is Canada's Minister Without Portfolio responsible for Housing—his first special assignment in this capacity has been the development of new policies and programs for Canada's Indian population. **Edward W. Logue,** President of the New York State Urban Development Corporation, will serve as Moderator, and the **Hon. Kenneth A. Gibson,** Mayor of Newark, New Jersey and the **Hon. Thomas L. Ashley** of Ohio, Member of Congress, will appear as panelists. In addition to this discussion on the "Patterns of Human Settlement"—this first Professional Session will include balloting for Institute Offices.

2.) How do we best use our resources to meet basic human needs — now?

Wednesday afternoon—June 23

Common Cause Chairman, **John Gardner,** will be the principal speaker at this second professional session. Mr. Gardner is nationally known as public servant, foundation president, university professor and author. From July, 1965 to March, 1968, he was Secretary of Health, Education and Welfare. Prior to his assuming the chairmanship of the nationwide citizen's lobby, "Common Cause," Mr. Gardner was chairman of the National Urban Coalition. The Moderator will be **Dr. Vivian W. Henderson,** president of Clark College, Atlanta, Georgia and the panelists are **Kenneth Clark,** author and professor of psychology at the City College of New York and **Dr. Peter Drucker,** management consultant and author of "The Age of Discontinuity" and other books. On Wednesday evening, a number of national committee meetings will be held and the Michigan Black Architects Group will host a reception in memory of Whitney Young. The ASC/AIA has scheduled an open discussion.

3.) What do we have to give up to create a livable environment?

Thursday morning—June 24

Professor of public affairs and urban planning at Princeton University, **Paul N. Ylvisaker** heads the distinguished speakers at this third and final theme session in Detroit. Considered one of the nation's foremost practitioners of urban affairs, Professor Ylvisaker has headed many councils and commissions and has served as both director and vice president of the Ford Foundation. **Carl H. Madden,** chief economist for the Chamber of Commerce of the United States is the Moderator and **Russell E. Train,** chairman, Council on Environmental Quality and an additional speaker not confirmed at our deadline will act as panelists.

A number of tours are scheduled for Thursday—the Henry Ford Museum, Greenfield Village and the Cranbrook Academy of Arts. Climax of the Convention will come on Thursday evening with the Gold Medalist's Ball in the Grand Ballroom, Cobo Hall. This year's Gold Medal—highest honor awarded by the Institute—will be presented to Architect and Educator, Louis I. Kahn, FAIA, of Philadelphia.

THE BUILDING TEAM CONFERENCE

On Monday and Tuesday, June 21-22, the American Institute of Architects and Producers' Council co-sponsor "The Building Team Conference"—a "convention within a convention." This will enable all members of the building team to meet and discuss ideas from their several vantage points. Expected to attend are engineers, contractors, owners, manufacturers, government officials, developers, administrators, sub-contractors and financiers. **Roger M. Blough,** former Chairman of the Board, United States Steel Corporation will keynote the program. Running concurrently with this technical seminar will be AIA business meetings for the delegates from 200 chapters.

The National Building Products Exposition will be open through the week in Cobo Hall on Detroit's revitalized waterfront. Evenings during the week will be given over to lighter affairs to include a big Host Chapter Bob-Lo Bacchanal, a boat ride down the Detroit River to Bob-Lo Island for dinner and dancing.

RECONVENED CONVENTION

Chartered planes have been arranged for the reconvened convention to be held this year in Copenhagen, Denmark. A one-day seminar will be held on June 28—a joint endeavor with the Society of Danish Architects. Two seminars will be held, July 5-9 in London and in Stockholm concurrently. The London program, "The British New Towns Program and Regional Development Experience" will be open to 40 American architects. The Stockholm program, "City Planning and Architecture in Sweden" is limited to 45 Americans.

It is, we believe, quite obvious from even this cursory examination of the annual running of the AIA Grand National that the architects—once again in 1971—will bring in a winner. Certainly the array of distinguished speakers, a range of entertaining activity and the presentation of the Institute's highest honors offer a diverse palette for all those architects and friends of architecture attending the Detroit Convention, June 20-24.

The Wyoming Chapter Is Cookin' On . . .

the Front Burner

As we hinted in our first official communique on the 1971 Western Mountain Regional Conference in the May Symposia — some very exciting cookery is going on "up north" in Wyoming. With those Master Chefs Extraordinaire — Gerald Deines and John Toohey in charge of the Cordon Bleu Cuisine, this year's 20th Annual bids fair to become a gourmet's delight. There is, after all, a setting—par excellence — the beautiful, Rockefeller built Jackson Lake Lodge in the heart of the magnificent towering Tetons. And the hospitality of the Wyoming Chapter — you will never meet a stranger in all the wide open spaces of this wide open country.

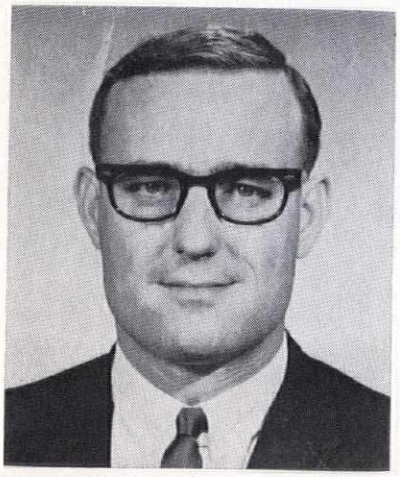
But — we did promise you a peek at the Bill of Fare. Let us begin with the apertif — a Host Chapter Cocktail party on Wednesday, September 8th on the Balcony of Jackson Lake Lodge. Yes, those are really **moose** down there in the meadow, and those really are the Tetons jutting into the sunset sky. And, yes, you will meet new friends and old . . . renewing those ties which are so strong and enduring among the architects of the Western Mountain Region.

Two of these WMR architects are programmed to share their skills and "know-how" with their colleagues at Jackson. They are Robert Fielden, A.I.A. and William C. Muchow, FAIA. Bob, as you know, is a past president of both the Las Vegas Chapter and the Nevada Association, and was a candidate for Western Mountain Regional Director in 1969. You may be very sure that Robert is doing a little "cooking on the front burner" himself as he prepares a collation on "Project Programming" for presentation on Thursday morning. Mr. Fielden also has an alter-ego (at Symposia—we call him "Benchley".) It is this "gay cabarello" whom you will encounter at less serious moments during the conference. Bill Muchow, a Fellow of the Institute, is the immediate past president of the Colorado Central Chapter, and his particular Chef's chapeau might be termed a perfect fit. He will discuss "Architectural Design" with conferees on Saturday morning. Bill is a perennial and prolific winner of awards in the Western Mountain Region and he has had both national and international recognition for many of his designs. Western Architects will be signally honored at their 20th conference—the initial luncheon speaker will be Max O. Urbahn, FAIA, First Vice President of the American Institute of Architects. Mr. Urbahn's firm, Max O. Urbahn Associates, Inc./Architecture and Planning is located in New York City, and he is registered in some eleven of these United States. Born in Milwaukee, he attended the University of Wisconsin, received a Bachelor of Science in Architecture from Illinois, and a Bachelor and Master's in Fine Arts from Yale University where he was an assistant professor from 1947-49.

Mr. Urbahn has been a Corporate member of the Institute since 1949, and received his Fellowship in Design in 1966. He is, of course, President-Elect of the AIA, and has served the Institute in many important roles for many years. The W.M.R. is most fortunate in having him "among those present" at Jackson Lake Lodge.

Just for a brief once-over-lightly . . . the 20th Annual is scheduled for September 8-11, so begin planning now to attend. It's got that "Four and Twenty Blackbird Pie" beat all hollow — the Wyoming Chapter is preparing a "Feast to Set Before a King." Next month, let's take a look at the place where all these goodies will be served.

Yes, Wyoming is cooking "on the front burner!"



Robert Fielden, AIA

Max O. Urbahn, FAIA

William Muchow, FAIA

a design feature

In Nevada—

A New State Office Building

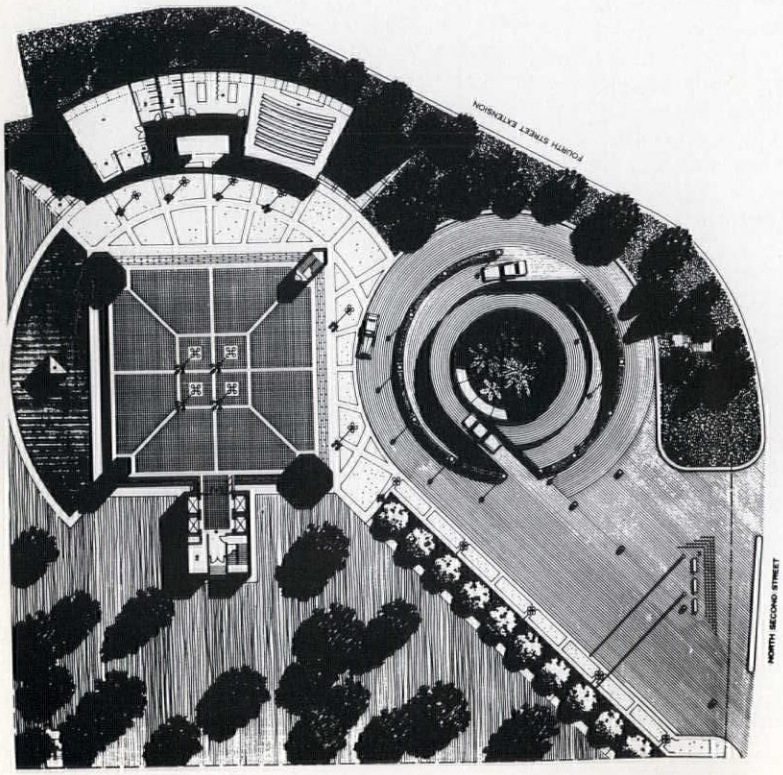
(As promised earlier—we are happy to present the Design Statement from the Las Vegas firm of Moffitt and McDaniel—Architects for a State Office Complex to be constructed in that burgeoning Southern Nevada city. Moffitt and McDaniel were selected through an Architectural Competition held under the AIA standards for anonymity and evaluated by a distinguished panel of judges from a group of four major firms invited by the State of Nevada to submit proposals. We are most appreciative for the Design Statement and the accompanying graphics from the winning architectural firm.)

by: Moffitt and McDaniel, A.I.A./Architects

DESIGN STATEMENT

Since Sullivan built the Wainwright Building in 1890, modern architects have been trying to solve these multiple problems of the tall office building—land use, flexibility, utility and structural integration, expandibility, parking and aesthetics.

This state office complex does present all of these problems with the added complication that the architectural statement should set the image for governmental presence. We have solved these problems in the following ways.



LAND USE

Surprisingly, that portion of the tri-governmental complex site assigned to the State is extremely restricted both as to area and access. Hard by the freeway and aging buildings, it borders the west side of a playfield which is almost the last remnant of open green land in the downtown area. In order to preserve forever this most valuable and vulnerable public asset a bold solution is necessary.

Our design elevates the building and buries the parking so that a green belt can flow through uninterrupted. A ground level plaza and lake are therefore provided in place of the usual ground consuming building block. Provisions are made for the extension of this green belt as time renders the surrounding building obsolete. From the narrow access off Second Street, traffic sweeps up a sloping incline either to unload or enter the parking ramp. Those departing continue in a clockwise direction to the street. Driveways to Bonanza were discarded in order not to render the open land in two.

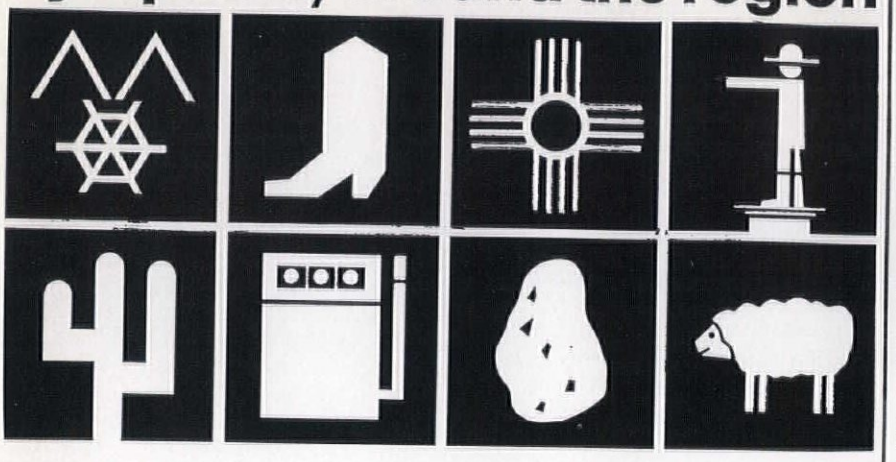
Those areas most used by the staff and public (cafe, auditorium, conference, etc) are reached from the plaza, both day and night when the rest of the building may be locked. These facilities turn their backs to the freeway dirt and noise while overlooking the pleasant atmosphere of the plaza, lake and garden. The balance of the site would ultimately be landscaped and connected with the green belt to the east, over which the building floats effortlessly, contributing rather than detracting from the environment.

FLEXIBILITY

It is an inescapable fact that state agencies constantly change. They are created, expanded and abolished. Therefore, their space needs are forever in a state of flux. Any floor plan design that is not totally flexible is a failure. The column bay system, utility core, elevators and stairs, distance to natural light, corridors and irregularly shaped plans traditionally limit loft space flexibility. Our solution completely removes all of these limitations.

Any interior layout design is possible in a rectangular space. Our structural system eliminates all interior columns by free spanning with a two way truss system connected to heavy piers at the corners, through which the

symposia/around the region



arizona

Annual PC Luau

Once again members of the Producers' Council Chapter in Phoenix are sending out invites to their Annual Luau where, according to our best information, you journey to the Islands without leaving the ground. This feat of magic carpetry will be accomplished on June 12th at the Poolside Patio of the Mountain Shadows Resort Hotel. Many participants will be on hand early—(11:00 a.m.) to tee off for the Golf Tournament on the sporty "short par—3 course" at Mountain Shadows. There will be free beer and soft drinks for the thirsty golfers.

At 6:30—everybody will be at the Poolside Patio for free AND exotic Hawaiian drinks during the "happy hour." With attitudes properly adjusted, the expertly planned and prepared food will be served with MORE to follow. There will be dancing to the Ray Andrade Orchestra and Iwalani's Mai Kai Revue. Leis will be furnished and there will be door prizes galore—without long ceremony —winners will be posted on the display board. Yep—PC is off to the islands again—better than ever . . . a gathering where everybody leaves their dignity and kids at home.

Construction Begins

According to James F. Lindlan, AIA, of the firm of Drover, Welch and Lindlan, Architects in Phoenix, construction is underway on a new $1 million classroom building, arts department addition, student commons area and new parking area at Paradise Valley High School. Lindlan, partner-in-charge, says the new open space Humanities Classroom Building will offer stimulation and incentive for group work, the center of the building houses a fixed resources center where students may check out material, take it back to the class area or to one of the isolated spaces on the building's perimeter where individuals can enjoy privacy without disturbing classmates.

The new 100,000 square foot student commons will serve as the heart of the expanding campus. Ideal for student activities, the well landscaped area will be adjacent to the snack bar, include generous patios, shade trees and an expansive paved area for extra curricular activities such as dancing. It will isolate noisy outdoor student activities from classrooms.

Lindlan also announced that the Park and Recreations Department has agreed to permit the neighboring County Park, slightly north of the school, to share the use of park facilities for recreational and athletic purposes with the school.

Paradise Valley High School's outstanding flexible facility for an educational program is being constructed by the E. L. Jones Construction Company of Phoenix and completion of the project is expected by September, 1971, in time for the new school year.

colorado

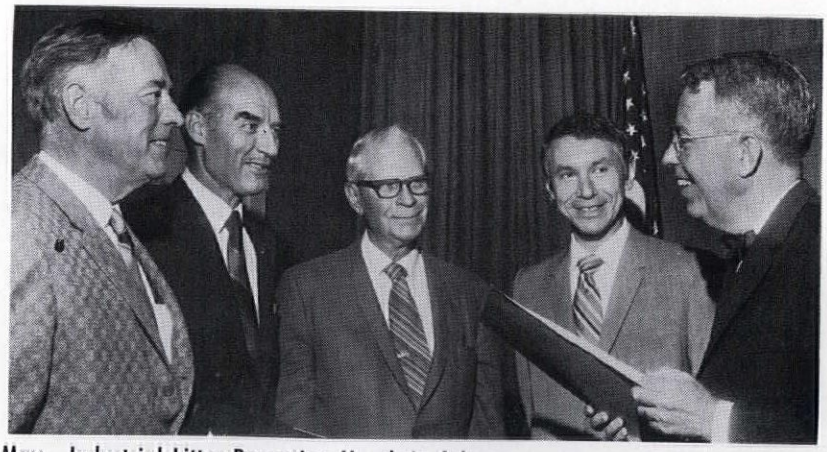
A.B.C. Dinner Meeting

On May 4, the Associated Building Contractors of Colorado (AGC) met at the Brown Palace Hotel for their semi-annual Combined Membership Dinner meeting. This is always a gala occasion . . . and made more meaningful this time around by their most distinguished speaker—leading economist, Dr. Emol A. Fails, President of Fails and Associates, Ltd., highly regarded as the leading authority on management in the construction industry. Dr. Fails has spent twenty years as a professor of economics at North Carolina State University—he is presently on a leave of absence enabling him to meet his speaking, writing and executive commitments.

In addition to the combined membership, some 20 members of the Colorado State University Student Chapter/AGC were present at the May meeting. This year's program arrangements were made by affiliate members—Chairman Paul Foehl of Midwest Steel and Iron Works Company and Vice Chairman George Campen of the Ceco Corporation.

Colorado Municipal League Meets

It's the 49th Annual Conference for the Colorado Municipal League on June 9, 10 and 11 at the Antlers Plaza Hotel in Colorado Springs. Three days of meetings will bring a number of



May—Industrial Litter Pevention Month in Arizona

Shown above the "interested parties" responsible for Industrial Litter Prevention Month in Arizona. Left to right: Charles Newton, United States Brewers Association; F. J. MacDonald, ASLA, Chairman of the Advisory Commission on Arizona Environment and Symposia's Contributing Editor on Landscape; "Andy" Anderson, Arizona Wholesale Beer and Liquor Association; Tom Frankovic, National Brewing Company, and Arizona Governor Jack Williams holding the Proclamation. This, says "Mac," looks like a good step forward from an organization often considered one of the chief sources of litter.

important speakers on environmental and civic affairs to speak to Municipal League members and their guests.
On Wednesday, a Consultation Clinic will be held and there will be Section Meetings for municipal officers—both elective and appointive. In the evening, Donald Beatty, Executive Director of the Municipal Finance Officers Association will project the 1972 MFOA National Conference to be held in Denver. Three guest speakers will address the assembly on Thursday morning on topics of current concern. They are the Honorable John A. Love, Governor of Colorado; the Honorable Carl B. Stokes, Mayor of Cleveland and First Vice President of the National League of Cities, who will discuss "The Future of the American City" and William MacDougall, Executive Director of the Advisory Commission on Intergovernmental Relations, who will speak on "Revenue Sharing."

Ralph Nader, consumer crusader and environmentalist, will speak on "Environmental Hazards: Man Made/Man Remedied" at the General Session Luncheon. There will be a Labor-Management Relations Workshop in the afternoon, and another for Smaller Communities which is titled, "Nuts and Bolts," on Law Enforcement, Solid Waste and Water.

The General Session Luncheon speaker on Friday is Frank Mankiewicz, syndicated columnist and former press secretary to the late Senator Robert Kennedy. His topic is "Washington Is Not America—Thank God!"

The three day meeting will conclude on Friday evening with the Annual Banquet and Entertainment.

idaho

Engineers Meet

"Larry" Hoffman, who keeps us "au courant" with the doings of Consulting Engineers up in beautiful Idaho, has a projection of the "happy times" for the Consulting Engineers of Idaho, Washington and Montana which is certainly tantalizing. The meetings are scheduled for June 24-26 in Coeur d'Alene. Larry writes: "The board meetings of Idaho, Montana and Washington will start on Thursday afternoon (2:00 p.m.) and will continue through Saturday noon, with separate meetings of the different states and some combined sessions. There will be a cocktail hour Friday evening, followed by dinner on board a boat on a Coeur d'Alene Lake cruise. There will be a Ladies' Continental Breakfast on Saturday morning, and a golf tournament will be held on the Coeur d'Alene course Saturday afternoon."

"Tentative plans are to charter a plane to fly the group from the southern part of the state to Coeur d'Alene if enough are interested, and some engineers plan to combine the convention with a business trip. We're happy to report real interest in the meeting from our sister states of Montana and Washington." And doesn't this sound enchanting? . . .

"Coeur d'Alene Lake is quite beautiful, surrounded by trees and summer homes. Several private and small boats can motor up the rivers which empty into the lake. It should make a delightful setting for a convention. The town is mostly a resort and lumber town and is located on the Interstate between Spokane and Western Montana."

Great country providing a proper setting for a great group!

montana

"Whatever's Fair"

It was a little difficult to know just where to put this item since it really covers Washington, Oregon and Idaho as well as Montana—however, the author is Bob Fehlberg, AIA, and a "Big Sky" man, so Montana, here it is! Sponsors of the "Whatever's Fair" meeting included the Spokane Chapter/AIA, the State Council of Architects/Northwest Region/AIA and, of course, the Department of Architecture at Washington State University, Pullman, where the conference was held Friday and Saturday, May 7-8. Here is Bob's excellent summary:
Friday evening the students, faculty from architectural schools in Washington, Oregon, Idaho and Montana along with a portion of practicing architects were mixed at an "Ice Breaker" held at the Oriental Restaurant in downtown Pullman. This was the start of a conference at which topics like the "Role of the Architect," " Architectural Education," and the "Future of the Profession" were discussed by students, faculty and architects, the whole program being topped off by a kegger in the Fellowship Hall of a local church. The exchange of ideas was truly an exchange —everyone discussed the profession as it pertained to education and to a way of life.
Outwardly it appears that the student in school presently is more interested in the overall big picture of architecture — the social problem, planning and analysis, studies, surveys—all the things that have to do with the big

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picture, but when discussing the future most of the students are interested in the traditional problems that must be solved—the work that must be done to give validity to the big picture. Students are concerned as are the teachers of architecture and the practicing architect with what the future may hold in five (5) years. What will the changes in the profession be; will there be a job when these people graduate; will the present offices still be in business? All valid questions that were discussed with no easy answers presented—many variables will determine the future. Things haven't really changed—architects have always been concerned with the future and the changes that must be made in our society and profession.

"Whatever's Fair" was a day and a half well spent—the students are refreshing in their enthusiasm and concern. Conference co-chairmen, Scott Chartier and Clark Lewellyn, handled the conference with the touch of a couple of professionals.

new mexico

Albuquerque Annual

The Albuquerque Chapter/CSI met Tuesday, May 4, and our good friend, neighbor and Board Member Bob Schmidt is "johnny on the spot" with all the news. He notes Chapter meetings are now held on the first Tuesday of the month, and that they will change locations come July. "Top contender at the moment is the Stadium Club—a brand new facility just opened at the Municipal Baseball Stadium (we had an article on it about two years ago)."

But—we'll let Bob take it from here: This meeting was the Annual Meeting which is for the wives also. One of the purposes of this meeting is to let the members get their "night-out" pass approved by the wife for the next year's CSI meetings. It is always a delightful meeting when we are surrounded by such an abundance of feminine pulchritude. There were even bouquets of flowers on the table and flowers for each of the ladies. The total turnout was around 85.

In addition we also announced the chapter officers for the next year starting July 1. The new president is Richard Henderson, Supervising Engineer-Buildings, Mountain Bell Telephone Company. He did a great job in the past serving as Technical Committee Chairman and Specifications School Chairman. First Vice President will be Arthur W. Marshall, Architect with Louis G. Hesselden. Second Vice President next year will be George Chant, L. H. Chant Electric Co. Our secretary will be the original president of the chapter—James R. Cushing, Architect with Lawrence A. Garcia. For the third year, Jack Pope, Jack Pope, Inc. (Roofers) will be the treasurer. One-year director will be Donald D. Paxton, Bridgers & Paxton, Consulting Engineers. Two-year director will be Don E. McNeill, Ideal Cement Co. Serving in his second year as a two-year director will be Gordon E. Bosl, Architect, Division of Plant Design and Construction, Bureau of Indian Affairs.

We were privileged to have our Section Director Tom Keeton present. He did the honors of awarding the Chapter Outstanding Industry Member Award. There was a tie for this award so two plaques were presented—to Don McNeill and William W. Sutton, Wellborn Paint Manufacturing Co. As Region Director, I had the pleasure of presenting the Chapter Outstanding Professional Member Award to Gerald Gasparich, Architect, Chief Specifications Section, Division of Plant Design and Construction, Bureau of Indian Affairs. He is doing a wonderful job at this time operating our Specifications School for this semester. The Outstanding Chapter Board Member Award was presented in absentia to Gordon Bosl by the outgoing president—John Reed.

The program, as selected by John Reed, was a three-way presentation on what is going to happen to downtown Albuquerque and how Urban Renewal works in with the plan. The three gentlemen giving this illustrated presentation were Howard Smith, the new City Planner, Don Peterson, Assistant Planner, and Rex Allender, Director of Urban Renewal. We had a very fine Annual Meeting which was a pure delight for all those who attended.

oregon

Visual Survey

This is but a mere introduction to "A Visual Survey of Downtown Portland"—certainly the most significant work done by any Chapter of the American Institute of Architects in Symposia's region. Produced by a sub-committee of the Portland AIA Environmental Design Committee, an interdisciplinary team of architects, city planners and landscape architects—the result is a complete 12"x18", 106 page spiral bound book. Aerial views, color maps, photographs and commentary are organized to give a current overview of downtown Portland and its relationship to the full city—and it's a beauty. It is also easy to

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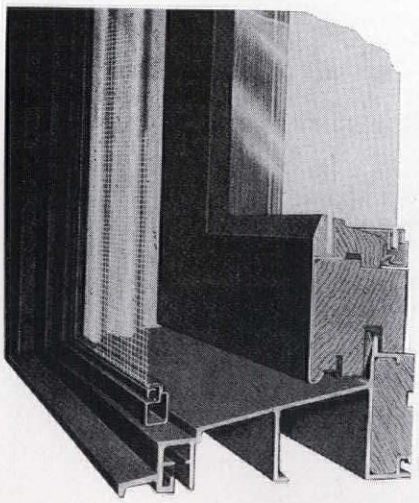
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see why it required over one thousand donated man hours and a year of time to bring it about. Symposia, of course, is planning an article—which, alas can be only a sampling of all the goodies included in this fine publication. We believe "A Visual Survey of Downtown Portland" belongs in every AIA Chapter office, and in the library of every architectural firm interested in planning. It is certainly well worth the $8.00 (plus 50 cents for postage and handling). Simply address The Portland Chapter, Inc., American Institute of Architects, 200 Dekum Building, Portland, Oregon 97204.

The impact of this Visual Survey has been most heartening—the public press and television have given it great coverage, and our Man in Oregon reports that everyone views this effort by Portland's architects most enthusiastically. He wrote on May 6 . . . "Last week a Mr. Edward Look, a Vice-President of the First National Bank of Oregon, a member of the Portland Urban Renewal Commission, and the individual most responsible for Portland's new auditorium and its Lawrence Halprin Fountain Forecourt, stated to me, in essence, the following:

"For once the architects of this city have contributed a positive proposal in their visual survey of downtown Portland. It is a contribution to the city which will assist city officials and leaders in planning and beautifying its downtown, and in contrast to prior efforts by the architects, it is not a proclamation of protest. Too often I've listened to ill-chosen representatives of the architects appearing before the city commissioners and the urban renewal commissioners protesting and complaining about the city's planning efforts. The results of these well publicized critical resolutions has produced only a bad image for all architects."

Again you may be sure Symposia will be taking you along on a "Visual Survey of Portland" very soon—and in the meantime, order your very own copy. A most worthwhile addition to any architectural library.

Alumnus M. Keith Richardson (left) presents the $1,200 scholarship check to University of Utah Department of Architecture Chairman, Robert L. Bliss.

utah

Alumni Contribute

Three graduates of the University of Utah Department of Architecture have contributed $1,200 to their alma mater for two architecture scholarships.

William A. Richardson ('57), M. Keith Richardson ('52), and Jerrold W. Anderson ('65) of the architectural firm Richardson, Richardson and Associates contributed the funds for tuition and expenses for two students in their final year of the six-year Master of Architecture program. The scholarship recipient for 1971 was announced at the annual department banquet on May 19.

"Since the initiation of the six-year architecture program, the need for substantial assistance for students has become critical," said Department Chairman Robert L. Bliss. He urges other alumni and friends to contribute funds for students and programs in the Department of Architecture, which is fast becoming "one of the finest in the western states."

Richardson, Richardson and Associates designed the University's College of Pharmacy, the Anaconda Building and the new science facility for Utah Technical College. William A. Richardson serves as U of U alumni chairman for architecture on the annual alumni fund drive.

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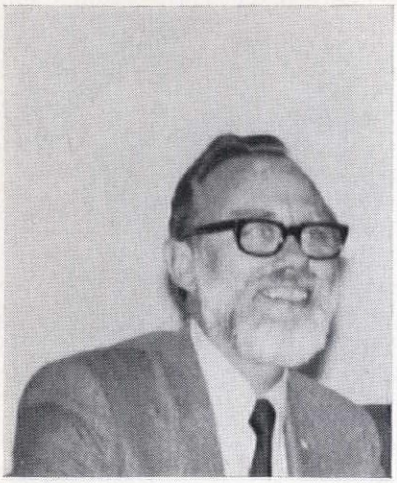
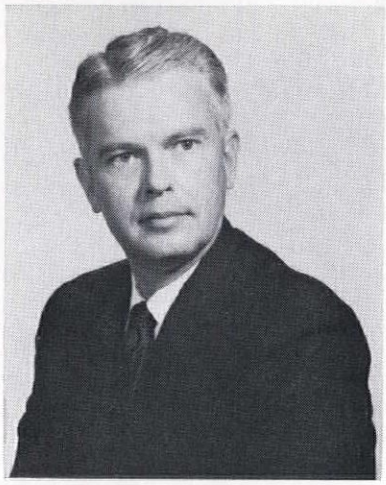
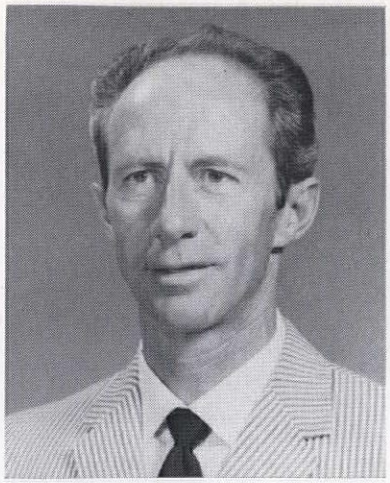


Richard C. Perrell, CSI/AIA



William H. Hawes, CEC



Robert E. Fehlberg, AIA

It is always with pride and with pleasure that Symposia extends the hand of welcome to new members of our distinguished Editorial Advisory Board. As we light the five candles on our Happy Birthday Cake — we pipe aboard Richard C. Perrell of Phoenix, Arizona, Robert E. Fehlberg of Billings, Montana and William H. Hawes of Denver.

Although Dick Perrell is known best as an outstanding member of the Construction Specifications Institute, he is also a corporate member of the Central Arizona Chapter of the American Institute of Architects, a member of the American Society for Testing and Materials and the American Concrete Institute. Born in Yonkers, New York, educated at Christian Brothers College in Memphis, Tennessee — Dick became an enthusiastic citizen of Arizona in 1960. From that time, until two years ago, he was in charge of specifications and field inspection in the office of John Schotanus, Jr., AIA. In 1969, he opened his own practice providing specifications and inspection services for architects in the Valley of the Sun.

In 1961, he joined the Phoenix Chapter/CSI, and almost immediately thereafter, they put him to work . . . Director: 1962-'63, Chapter President for two terms, and since 1965, he has been a Director . . . for the past 3 years he has edited "Cactus Comments."

After nine years, he is retiring gracefully (perhaps, gratefully) to assume the role of Conference Chairman for the up-coming Region 10/Region 11 meeting in Phoenix come October. Dick is the recipient of a host of awards and citations in the Annual CSI Specifications Competition and in 1966-'67 was honored for "distinguished service in the furtherance of technical research" by CSI Region 11. His vivacious wife, Nancy Jane, and Dick are the parents of a daughter of ten — Carolyn Ann, and the owners of Conjadane Kennels. As might be surmised, they raise and breed Great Danes, and when not otherwise engaged you will find them actively campaigning on the Dog-Show Circuits. Welcome Aboard, Dick Perrell — we're mighty glad to have you.

With appropriate ruffles and flourishes, we introduce Robert E. Fehlberg, AIA of Billings, JPB Country. Bob is to the Montana manner born — Kalispell was his home town and he attended the University of Montana at Missoula, and graduated from the School of Architecture at Montana State at Bozeman. He was, early on, a partner in the firm of Weed and Fehlberg in Kalispell, but is presently a principal in the architectural firm of CTA Architects/Engineers/Planners of Billings, and Twin Falls, Idaho. He served four years on the Executive Committee of the Montana Chapter/AIA and was President in 1964. In 1969-'70, he headed the Billings Architectural Association.

Bob Fehlberg has long been involved in the Arts — president of the Billings Arts Association, of the Montana Institute of the Arts, and the Yellowstone Art Center Foundation. In 1965, he was honored with Fellowship in the Montana Institute of the Arts for his leadership in art and architecture in Montana and for his voluntary efforts instigating, designing and renovating the Yellowstone County Jail into the Yellowstone County Art Center. A contributing member of the Administrative Office Practice Committee of the AIA, Bob is also a candidate for Northwest Regional Director . . . to be nominated at the Conference in Richland, Washington this October, voted upon by ballot after the conference. The newly elected director will take office, December, 1971 to serve for three years. Bob and his most talented wife, La Donna are the parents of four — Kolby, Kenje, Kurt and Klee. Come aboard, sir, you're most welcome!

When you talk to Engineer Bill Hawes, you just know there's got to be a little Texas somewhere in the background. And, of course, there is. He received his Bachelor's in Civil Engineering from Texas A & M. — his Master's from the University of Colorado. He is a past president of the Consulting Engineers Council/Colorado, a member of the American Society of Civil Engineers, the National Society of Professional Engineers and Tau Beta Pi.

Bill worked for the American Bridge Company from 1949-'51, spent five years with consulting firms in Denver and in 1956-57 did aircraft design for Convair in Fort Worth. In 1957, he moved to the American Institute of Steel Construction (Chicago-Minneapolis) returning to Denver, for keeps, in 1960. Until two years ago, he was a principal in Andersen, Koerwitz and Hawes when he opened his own consulting firm as Hawes and Associates. A past Vestryman and Senior Warden of Christ the King Episcopal Church, Bill says he tries fishing and skiing but can't be counted an expert at either. He and his two sons, Tom and Andrew do like to get out for at least one back-pack trip per year. The ladies in the Hawes family include his charming wife, Doris and 18-year-old daughter Joan who will be a freshman at C.S.U. in the fall. Welcome to the Symposia Crew, Bill Hawes, we're happy to have you with us!

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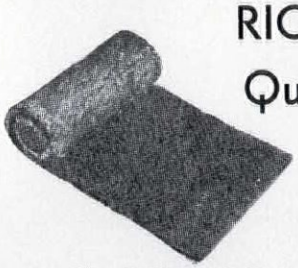

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the last word:

Congrats to the Tucson Chapter/CSI—their newsletter "Tucson Topics" will be honored at Anaheim at the national CSI Convention.

Dubious Distinction—As of mid-May, Denver became one of eight U.S. Cities to have an "Environmental Meteorological Support Unit" or more simply stated—a Smog-Alert service.

On the Overdone Roast Beef an Green Bean Circuit—J. Robert Folsom, Director of Campus Planning and Construction/Weber State College. He spoke to the Ogden Exchange Club on May 18th—to the Ogden Lions on the 25th.

Doin' What Comes Natcherly—Stan Borthwick, president of Lembke Construction and past president of the New Mexico Building Branch/AGC has been elected president of the Albuquerque Rotary Club. On the Board of Directors . . . Ron Ferreri and George Chant of CSI/AGC fame.

Members of the Willamette Valley Chapter/CSI and other interested persons took the first in a series of C.S.I. sponsored industrial tours on May 4. All plant equipment was in operation at Temple Counter Tops so members could "see the action." If successful, this will be the first in a series.

Nation-wide attention is being focused on the first Colorado Commission for the Certification of Consulting Engineers headed by James H. Konkel. The Commission began work in May to set machinery in motion for the certification program.

The May 17th Informational Meeting of the Arizona Chapter/Producers' Council featured Tom Brown, General Sales Manager of Bradley Washfountain, Ted Stahn and Associates, Inc. They're mighty busy in Cactus Country these days.

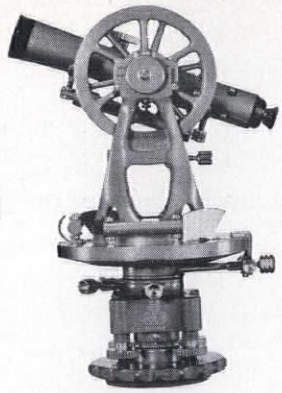
Ray Robinson was the Chairman of the highly successful Annual Meeting for the Salt Lake City Chapter CSI. Golf, dinner, entertainment and the CSI Ladies made this a "night to remember" at the Homestead.

The Hilton Hawaiian Village in Honolulu will be the setting for "Environment—Hawaii and the World" on June 19th. This symposium for architects and landscape architects is being sponsored by the American Institute of Landscape Architects.

The June meeting of the Portland Chapter/CSI will be held June 22nd because of conflict with the Institute Convention in Anaheim on June 7-9.

Silver Medal Winner in Class III of the National Swimming Pool Design Competition—Theodore J. Wirth & Associates, Architects and Landscape Architects of Billings, Montana. Congratulations are in order.

The Denver Architectural firm of Baume and Polivnick are closing up shop. Henry Baume will continue as Director of Facilities and Planning at Presbyterian Medical Center and Norton Polivnick will go in for recreational development in those wide open spaces up in the Dillon area.



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The usual W.O.O.D. Inc. luncheon in May was something special thanks to the screening of the fine film on salesmanship called "The Professionals" with Forest Tucker and Van Johnson in the leading roles.

David Leavengood, assistant professor of Architecture at Montana State University, has recently had a one-man, 60-piece show of his sculpture at MSU's Reid Hall.

It was a May Day Surprise at the May 11 meeting of the Portland Chapter/CSI. The program was on "Formed-In-Place Insulation"—both entertaining and educational!

Paolo Soleri, Arizona-based, world renowned architect, planner and urbanologist was on hand on 22 April at Reed College in Portland, Oregon, on the campus of CSU in Fort Collins on 21 May. In late May, some of the Soleri works will be displayed as a part of the Spring Arts Festival at Colorado University.

Those pretty Colorado Architectural Secretaries met at the Dublin House in Colorado Springs on 12 May. Dietz Lusk (Lusk and Wallace, Colorado Springs) spoke on "Land Use in Colorado."

Encino House, Albuquerque's high rise for the elderly, was dedicated on Thursday, May 13th. Designed by Architects Wallace Wendell and John Varsa, the 153 unit complex was built by Bradbury and Stamm Construction Company.

Two, among many important May meetings for Arizona Design Professionals —the Interiors Seminar on the 20th and the Seminar on Facilities and Care for the Aged at Arizona State University on the 22nd.

Samuel Premack, principal of the Perl-Mack Companies in Denver was presented a special award by the Formica Corporation for "Architectural Excellence in Home Design."

LEGISLATION/'71

Arizona—And more's the pity. SB-125 for which everyone held such high hopes was valiantly fought, but went down due, unfortunately, to one legislator who held some hard feelings against the architects. Central Chapter President Herb Schneider in the May C.A.C. Newsletter wrote—"All of us in the profession do need to thank Tom Zimmerman and Dwight Busby for their efforts in our behalf—along with a host of other architects who did their part along the way. It was great to see a real concern and participation by the architects this year, getting behind our Legislative Committee." We will all sincerely hope the Fee Bill makes it next time around.

Montana—Reports Cal Hoiland from Great Falls "Legislative action was pretty successful as far as architects were concerned" (the Statute of Limitations for 10 years was passed as reported)—"although it's hard to say what will be the end result of financing for building projects when the Legislature convenes again in June for an unprecedented 2nd Special Session to appropriate funds for running the state for two years and for determining how to find the necessary tax money to do it all."

Oregon—Our information from the Oregon Council of Architects/AIA is not as up-to-the-minute as we would like, however, it does express the position taken by the organization on the various bills presented to Oregon legislators in 1971. In the House, Architects reported favorably on a revised committee version of HB 1048 on the State Building Code; on HB 1074—the Adaption of Public Building Entrances for the Handicapped; HB 1861—the Establishment of a Travel Information Council. This legislation is designed to improve conditions for public safety and to preserve the recreational value and natural beauty of Oregon's highways. Official Motorist Informational Signs would be properly regulated and placed to inform motorists of the route and distance to brands of gasoline, public accommodations, commercial services, rest stops and information centers. It further provides for the control of all signs within sight of all state highways except within cities and requires the removal of all non-complying signs by January 1, 1976.

The Oregon Council spoke out against HB 1964—to allow the Board of Education to Establish an Architectural Planning Section. In the Senate: the AIA position paper reported a generally favorable attitude toward SB 485—the Architectural Name Change Requirement. On SB 257, the Designers Bill—the Association states "At present in a confused state. Definitely opposed."

And Some Laurels . . . To: The Consulting Engineers Council/Colorado who won the award at the CEC/AIA Public Affairs Conference in Washington, D. C. for the most meaningful and effective brochure to lawmakers. These fellows have done this before!

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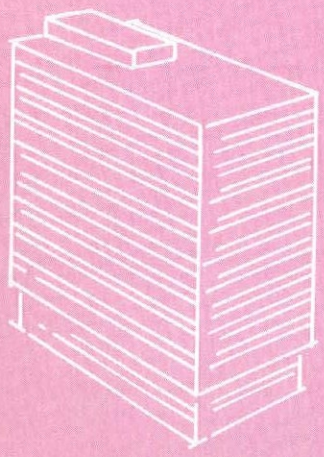

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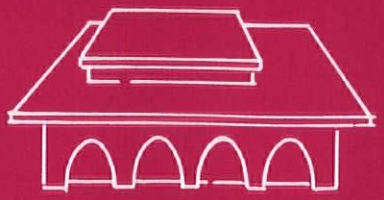

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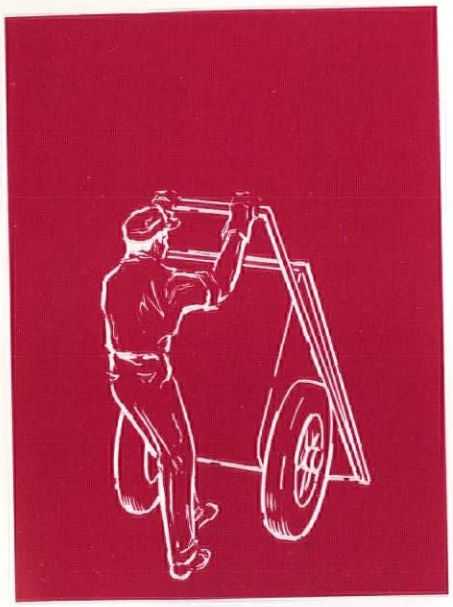

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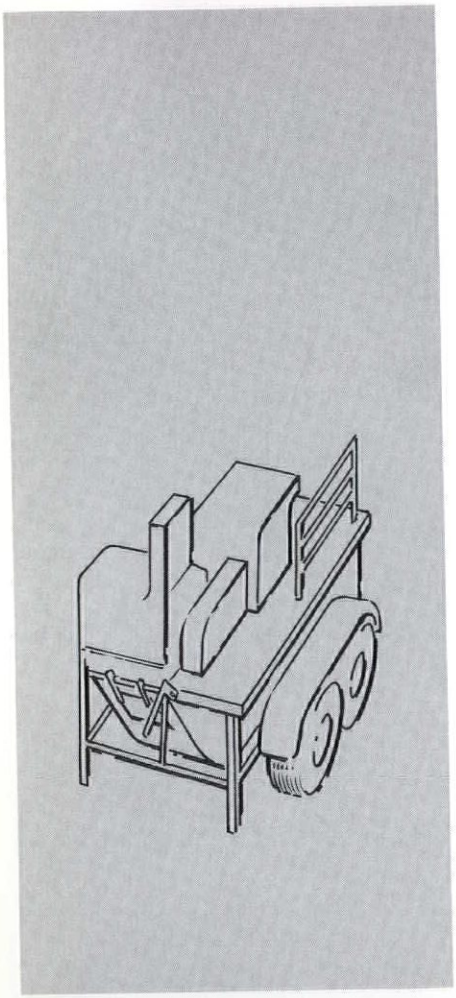

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SCOPE

All roof areas shown on the plans and listed in the specifications as perlite-asphalt (thermal - setting) insulation shall be Dri-Pac conforming to the specifications of Construction Products Division — W. R. Grace & Co. (Recommended minimum thickness, 1".)

An applicator approved by the Construction Products Division — W. R. Grace & Co. shall furnish all labor, materials, equipment, and supervision for installing the Dri-Pac roof insulation in accordance with these specifications and applicable drawings. A minimum of two Dri-Pac test samples shall be taken during each day's application and submitted with a field report form for testing. Upon completion of the roof deck installation and testing procedures, a certificate of compliance shall be issued to the architect and/or the general contractor.

Steel framing for openings, edge angles, wood nailers, and structural expansion joints shall be provided by others.

MATERIALS

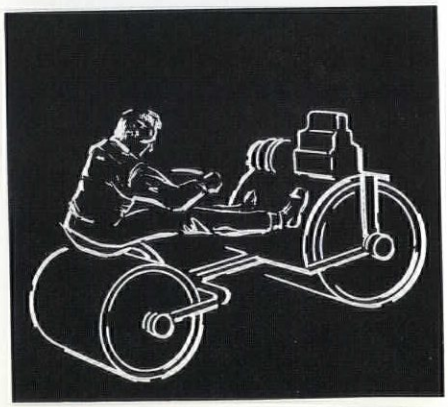
1. Perlite aggregate shall be a special hard grade of perlite as manufactured or approved by the Construction Products Division — W. R. Grace & Co. Perlite aggregate shall conform to ASTM C332-66, Group I specification.
2. Asphalt binder shall conform to ASTM D312-64, Type III or Type IV.
3. Bond coat shall be an asphalt type adhesive as supplied and/or approved by the Construction Products Division — W. R. Grace & Co.

PREPARATION OF DECK SURFACE

1. All joints between pre-stressed or pre-cast units must be grouted or taped.
   a. Grouting — Grout shall be one cubic foot portland cement to four cubic feet Zonolite concrete aggregate (or one cubic foot portland cement to three and one-half cubic feet of sand) mixed to a pourable consistency. Screed to a level surface.
   b. Taping — Tape shall be strips of 15 lb. felt of a width that will allow for sufficient adhesion to the deck surface. Adequate amounts of approved adhesive shall be used.
2. All piping or loose inserts must be made secure and all holes must be bridged with a firm material.
3. When Dri-Pac is applied over a vapor barrier, vapor barrier must be flood coated or glazed with steep asphalt.
4. The roof deck surface shall be free and clear of water, snow or ice prior to the application of the bond coat and the application of the Dri-Pac insulation.

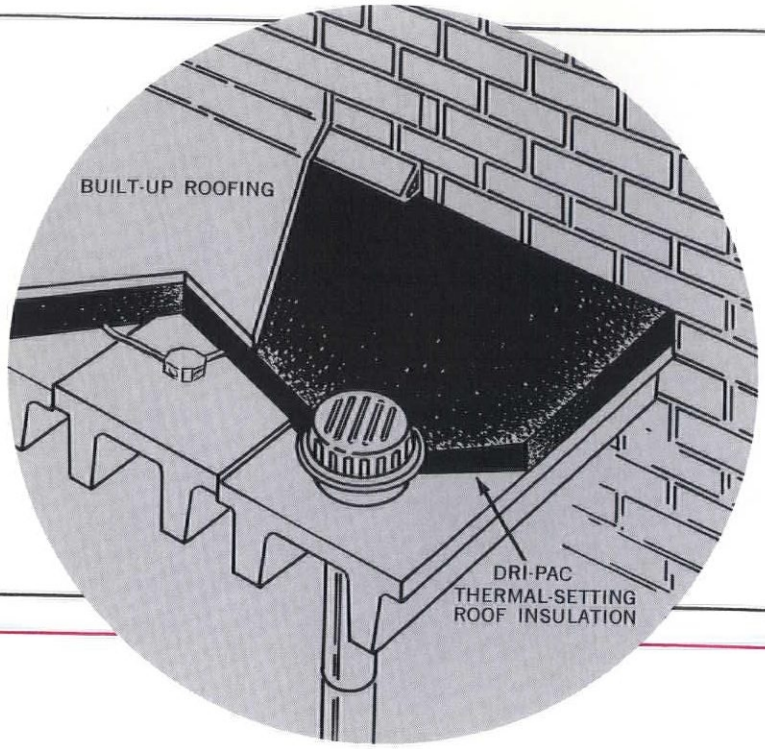
MIXING

1. Dri-Pac insulation shall be mixed in approved types of mixers to conform to the published Dri-Pac mix design. Mixing time shall be of such duration to provide a thorough mix that will compact uniformly to a surface ready to receive the roofing membrane.



TECHNICAL DATA

THERMAL CONDUCTIVITY	K = 0.42 (K = Btu/hr. /sq.ft./°F/in. thickness)
COMPACTED DENSITY	Not to exceed 22 lbs./ft.^{3}
COMPOSITION	**Perlite aggregate** conforms to ASTM C332-66, Group I. **Asphalt** binder conforms to ASTM D312-64, Type III or Type IV.
LOAD INDENTATION	1/16 in. max. at 40 p.s.i. (5,760 lbs./sq. ft.)
ABSORPTIVITY	4.5% by volume as established by ASTM method C209-66.
CAPILLARITY	0
HYGROSCOPICITY	0



10. Certified — A certificate of compliance shall be issued upon completion of the roof deck installation and testing procedures.

11. Dri-Pac Roof Insulation is listed with Underwriters' Laboratories, Inc. Roof Deck Constructions (360 RO) Construction No. 3.

PRIME USES FOR DRI-PAC

1. The use of Dri-Pac as roof insulation and drainage fill over structural, pre-cast and pre-stressed concrete.

2. Dri-Pac insulation for promenade and parking decks.

3. Re-roofing with Dri-Pac roof insulation.

4. Dri-Pac base insulation for ice rinks.

5. Dri-Pac roof insulation used in conjunction with future floor designs.

PLACING

1. Dri-Pac roof insulation shall be applied over a rigid sub-base such as structural or pre-cast concrete roof decks.

2. Bond coat shall be applied to all deck surfaces prior to the application of the Dri-Pac insulation.

3. Dri-Pac shall be screeded to a preset screed thickness to allow for compaction to the density range specified.

4. Compacting shall be accomplished by an approved type of roller or compacting unit so that the compacted density is uniform and meets the density range specified.

PROCEDURES FOR SAMPLING

1. Samples representative of the Dri-Pac mix specified shall be cast into Dri-Pac certification molds. Test mold shall be filled and struck off level. The top of the mold shall then be firmly pressed into place. This mold should be allowed to cool. When cool, ship mold to Construction Products Division Research Center for testing.

2. Testing procedure shall be per accepted laboratory standards and practice. Samples shall be tested for density, compressive strength and water absorption.

3. Upon successful completion of the above test procedure, a certificate of compliance, signed by the approved applicator and a designated representative of the Construction Products Division of W. R. Grace & Co., shall be issued to the architect and/or general contractor.

NOTES

1. To conform to roofing manufacturers' recommendations for roof drainage, it is recommended that adequate slope be indicated in the thickness of the Dri-Pac roof insulation so that positive roof drainage is realized.

2. To qualify for a certificate of compliance, procedures outlined under Scope must be followed.

3. Dri-Pac roof insulation does not require expansion joints. The responsibility for placement of structural control joints lies with the designer. Construction Products Division will not be responsible for such placement.

4. When slope of deck structure exceeds 2" in 12", refer to Zonolite Data Sheet CA-205 for roof insulation specification.

MIX DESIGN
Roof Insulation

Compacted Density
Not to exceed 22 lbs./ft.^{3}

INSPECTION PRELIMINARY TO ROOFING

Dri-Pac shall receive the roofing membrane immediately upon cooling and when it has developed the following characteristics:

1. Surface Hardness — The hardness of the surface shall be considered adequate when it will withstand foot traffic and other light operations of roofing, without damage, but must be protected from gouging or excessive loads.

2. Surface Finish — The surface shall be compacted, firmly bound and free of excessive ridges or roughness capable of interfering with proper bonding of the roofing membrane.

Note: Any deviation from above should be brought to the attention of a representative of the Construction Products Division — W. R. Grace & Co.

BUILT-UP ROOFING

Roofing membrane can be placed on Dri-Pac as soon as material cools and will withstand normal light foot traffic without damage to the surface. Roofing over Dri-Pac shall be applied conforming to detail specifications of individual roofing manufacturer specifications. Zonolite recommends that a coated base sheet be used as the first ply of roofing over Dri-Pac. Base sheet should be applied in steep asphalt using 30 to 40 lbs. of asphalt per square. Note: pre-formed cant strips should be included in the roofing section of the specifications.

DRI-PAC ROOF INSULATION "U" FACTOR CHART

Thickness of DRI-PAC Insulation	THICKNESS OF STRUCTURAL CONCRETE DECK (140 P.C.F.)											
	2 Inches				4 Inches				6 Inches			
	No Ceiling		Ceiling		No Ceiling		Ceiling		No Ceiling		Ceiling	
	Heat Flow		Heat Flow		Heat Flow		Heat Flow		Heat Flow		Heat Flow	
	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down
1	.27	.24	.15	.14	.26	.23	.14	.13	.25	.22	.14	.13
1½	.20	.19	.12	.12	.20	.18	.12	.11	19	.18	.12	.10
2	.16	.15	.11	.10	.16	.15	.10	.10	.15	.14	.10	.10
2½	.13	.13	.09	.09	.13	.12	.09	.09	.13	.12	.09	.09
3	.11	.11	.08	.08	.11	.11	.08	.08	.11	.10	.08	.08
3½	.10	.10	.07	.07	.10	.09	.07	.07	.10	.09	.07	.07
4	.09	.08	.07	.07	.09	.08	.07	.06	.09	.08	.07	.06
5	.07	.07	.06	.06	.07	.07	.06	.05	.07	.07	.06	.05
6	.06	.05	.05	.05	.06	.06	.05	.04	.05	.05	.05	.04

NOTES:

1) Ceiling used in "U" value calculation is ¾" fiberglass lay-in panel.

2) Authority for "U" values based on A.S.H.R.A.E. guide and test data by recognized independent laboratories.

DRI-PAC FOR PROMENADE AND/OR PARKING DECKS

With the increased design and use of promenade and parking deck areas the need has arisen for a practical and efficient insulation. Dri-Pac insulation meets these requirements. Dri-Pac insulation combines hot asphalt with a precise gradation of perlite aggregate to produce a material that will withstand in excess of 5500 lbs. per square foot and still produce a high insulation quality.

ADVANTAGES

Dri-Pac provides thermal insulation for occupied areas (K of 0.46 at 75° mean temperature). When heating coils are used for snow melting, Dri-Pac allows maximum heat flow upward for most efficient snow melting.

Dri-Pac provides a cushion for the waterproofing membrane against building movement and expansion and contraction due to temperature differentials.

Dri-Pac insulation is applied by skilled, approved applicators. The installation is jointly certified by the aggregate manufacturer and applicator as an assurance that Dri-Pac has been mixed and applied according to current proper specifications.

Note: For detailed specifications using Dri-Pac insulation for promenade and/or parking decks, refer to Data Sheet DP-101.

RE-INSULATE — RE-ROOFING WITH DRI-PAC ROOF INSULATION

When it becomes necessary to replace old roofing and insulation, Dri-Pac roof insulation can save considerable time and expense. Many roof decks that are in need of repair were designed without positive drainage. With the application of Dri-Pac it is now possible to incorporate this advantage into the roof deck system.

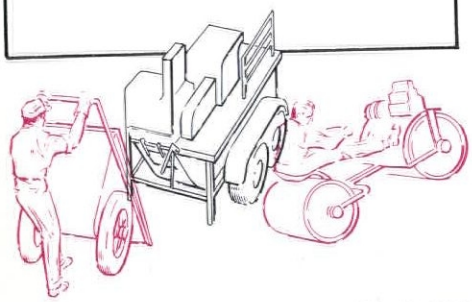
In many instances the building must remain occupied during the re-roofing and re-insulation process. The roofing can be installed soon after the Dri-Pac has been placed, thus construction delays are minimized.

If the existing roof and roof insulation have been examined and it has been determined that there is no necessity to remove them, the Dri-Pac roof insulation can be applied directly over the existing materials. All that is necessary is that the loose gravel, dirt and debris be removed and proceed with the normal application of Dri-Pac. Roofing shall be applied as soon as the Dri-Pac cools.

With the application of Dri-Pac roof insulation a high insulation value is attained — K of 0.42 at 75° mean temperature.

The Dri-Pac insulation is applied by skilled approved applicators. The installation is jointly certified by the aggregate manufacturer and applicator as an assurance that Dri-Pac has been mixed and applied according to current proper specifications.

Note: For detailed specifications for re-insulation with Dri-Pac consult Data Sheet DP-102.



W. R. GRACE & CO.

GRACE

ZONOLITE

CONSTRUCTION PRODUCTS DIVISION

62 WHITTEMORE AVENUE, CAMBRIDGE, MASSACHUSETTS 02140

ELECTIVE ALTERNATE ROOF INSULATION

ZONOLITE DYZONE

It is the intent that the base specification be used if the construction progresses to the roof level during the period of the year when freezing temperatures may be expected. If the construction at the roof level proceeds during periods when temperatures are above freezing, the architect reserves the right to direct the contractor to use the following alternate roof fill system. The contract price will be adjusted to reflect the deduct indicated in the contract document.

SCOPE

All roof areas as shown on the plans and listed in the specifications shall be Dyzone Cast-In-Place insulation and shall conform to the specifications of the Vermiculite Institute.

An applicator approved by Construction Products Division — W. R. Grace & Co., or its Processing Distributors, shall furnish all labor, materials, equipment, and supervision for installing the complete roof deck in accordance with these specifications and applicable drawings. A minimum of four 3" x 6" concrete test cylinders shall be taken during each day's pour (prepared according to ASTM C495-66T) and submitted with a field report form for testing. Upon completion of the roof deck installation and cylinder testing a certificate of compliance shall be issued to the architect.

Steel framing for opening, edge angles, wood nailers, structural expansion joints shall be provided by others.

MATERIALS

1. Zonolite Vermiculite concrete aggregate shall conform to ASTM C332-66, Group I specifications.

2. Portland cement shall conform to ASTM C150-68, Type I, II or III or to ASTM C175-68, Type IA, IIA or IIIA for air-entrained portland cement.

3. Dyfoam Ventboard shall be type SE thickness (¾" - 1" - 1½" - 2") as manufactured by Construction Products Division — W. R. Grace & Co. Ventboard shall have vent slots cut top and bottom 6" c.c. and cross grooved on the ends to provide continuous venting top to bottom. Bond grooves shall be cut into the board 3" c.c. top and bottom. A permeable facing material shall be applied top and bottom to maintain venting slots clear of concrete. The unit weight shall be not more than 1.2 lbs. per cubic foot.

4. Water shall be clean and free from deleterious amounts of acid, alkali and organic materials.

DENSITY CONTROL

1. Mix proportions shall be 1-6 (one bag, 94 lbs., portland cement to one and one half bags, 6 cubic feet, of Zonolite Vermiculite concrete aggregate). Aggregate content per cubic yard shall be a minimum of 27 cubic feet.

2. Physical Properties
a. Minimum compressive strength 125 P.S.I.
b. Oven dry density ..... 22-27 lbs. P.C.F.

PLACING

Dyfoam Ventboard shall be bonded to the structural deck with a slurry coat of the same mix ratio that is being used for the fill over the Ventboard.

Zonolite Insulating Concrete shall be pumped into place and screeded to a true and even surface ready to receive roofing.

Certified Zonolite Roof Deck Systems shall conform to specifications of the Vermiculite Institute and U.S.A. specifications A 122.1 - 1965.

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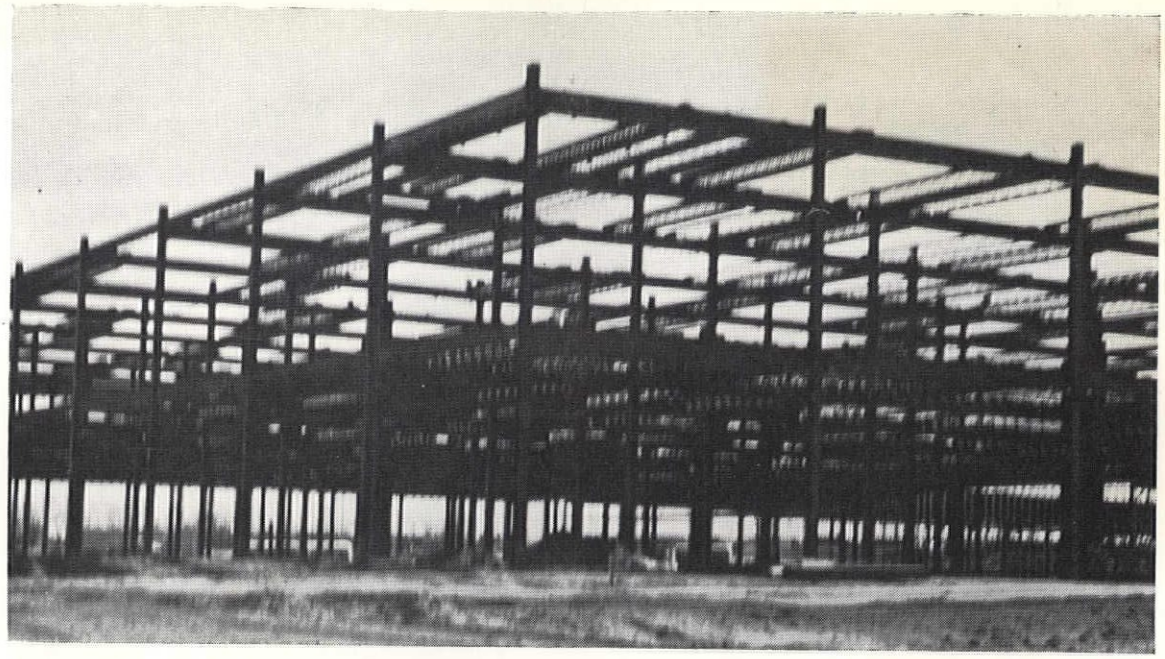

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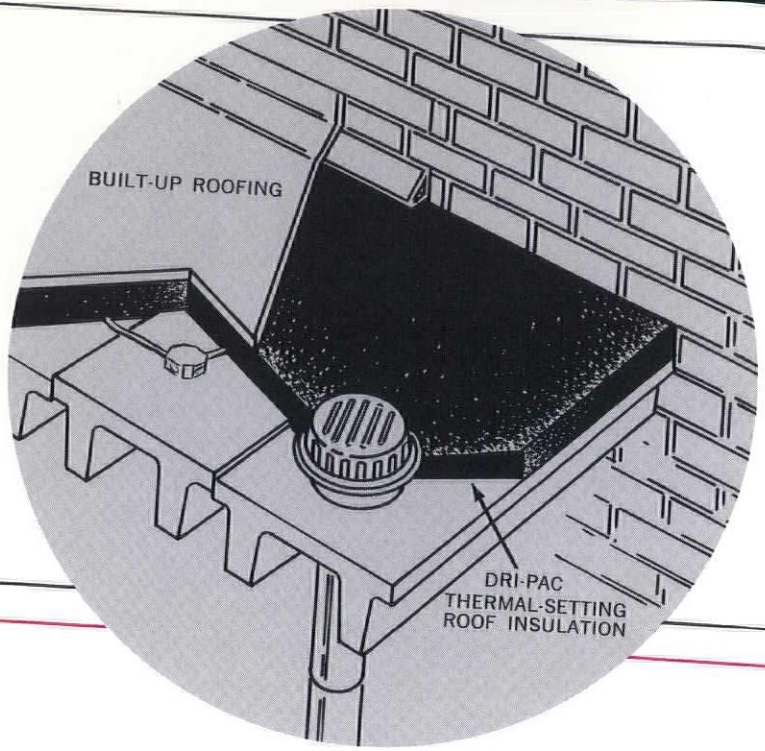

10. Certified — A certificate of compliance shall be issued upon completion of the roof deck installation and testing procedures.

11. Dri-Pac Roof Insulation is listed with Underwriters' Laboratories, Inc. Roof Deck Constructions (360 RO) Construction No. 3.

PRIME USES FOR DRI-PAC

1. The use of Dri-Pac as roof insulation and drainage fill over structural, pre-cast and pre-stressed concrete.
2. Dri-Pac insulation for promenade and parking decks.
3. Re-roofing with Dri-Pac roof insulation.
4. Dri-Pac base insulation for ice rinks.
5. Dri-Pac roof insulation used in conjunction with future floor designs.

PLACING

1. Dri-Pac roof insulation shall be applied over a rigid sub-base such as structural or pre-cast concrete roof decks.

2. Bond coat shall be applied to all deck surfaces prior to the application of the Dri-Pac insulation.

3. Dri-Pac shall be screeded to a preset screed thickness to allow for compaction to the density range specified.

4. Compacting shall be accomplished by an approved type of roller or compacting unit so that the compacted density is uniform and meets the density range specified.

PROCEDURES FOR SAMPLING

1. Samples representative of the Dri-Pac mix specified shall be cast into Dri-Pac certification molds. Test mold shall be filled and struck off level. The top of the mold shall then be firmly pressed into place. This mold should be allowed to cool. When cool, ship mold to Construction Products Division Research Center for testing.

2. Testing procedure shall be per accepted laboratory standards and practice. Samples shall be tested for density, compressive strength and water absorption.

3. Upon successful completion of the above test procedure, a certificate of compliance, signed by the approved applicator and a designated representative of the Construction Products Division of W. R. Grace & Co., shall be issued to the architect and/or general contractor.

NOTES

1. To conform to roofing manufacturers' recommendations for roof drainage, it is recommended that adequate slope be indicated in the thickness of the Dri-Pac roof insulation so that positive roof drainage is realized.

2. To qualify for a certificate of compliance, procedures outlined under Scope must be followed.

3. Dri-Pac roof insulation does not require expansion joints. The responsibility for placement of structural control joints lies with the designer. Construction Products Division will not be responsible for such placement.

4. When slope of deck structure exceeds 2" in 12", refer to Zonolite Data Sheet CA-205 for roof insulation specification.

MIX DESIGN
Roof Insulation

Compacted Density
Not to exceed 22 lbs./ft.^{3}

INSPECTION PRELIMINARY TO ROOFING

Dri-Pac shall receive the roofing membrane immediately upon cooling and when it has developed the following characteristics:

1. Surface Hardness — The hardness of the surface shall be considered adequate when it will withstand foot traffic and other light operations of roofing, without damage, but must be protected from gouging or excessive loads.

2. Surface Finish — The surface shall be compacted, firmly bound and free of excessive ridges or roughness capable of interfering with proper bonding of the roofing membrane.

Note: Any deviation from above should be brought to the attention of a representative of the Construction Products Division — W. R. Grace & Co.

BUILT-UP ROOFING

Roofing membrane can be placed on Dri-Pac as soon as material cools and will withstand normal light foot traffic without damage to the surface. Roofing over Dri-Pac shall be applied conforming to detail specifications of individual roofing manufacturer specifications. Zonolite recommends that a coated base sheet be used as the first ply of roofing over Dri-Pac. Base sheet should be applied in steep asphalt using 30 to 40 lbs. of asphalt per square. Note: pre-formed cant strips should be included in the roofing section of the specifications.

DRI-PAC ROOF INSULATION "U" FACTOR CHART

Thickness of DRI-PAC Insulation	THICKNESS OF STRUCTURAL CONCRETE DECK (140 P.C.F.)											
	2 Inches				4 Inches				6 Inches			
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3	.11	.11	.08	.08	.11	.11	.08	.08	.11	.10	.08	.08
3½	.10	.10	.07	.07	.10	.09	.07	.07	.10	.09	.07	.07
4	.09	.08	.07	.07	.09	.08	.07	.06	.09	.08	.07	.06
5	.07	.07	.06	.06	.07	.07	.06	.05	.07	.07	.06	.05
6	.06	.05	.05	.05	.06	.06	.05	.04	.05	.05	.05	.04

NOTES:

1) Ceiling used in "U" value calculation is ¾" fiberglass lay-in panel.

2) Authority for "U" values based on A.S.H.R.A.E. guide and test data by recognized independent laboratories.

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RE-INSULATE — RE-ROOFING WITH DRI-PAC ROOF INSULATION

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In many instances the building must remain occupied during the re-roofing and re-insulation process. The roofing can be installed soon after the Dri-Pac has been placed, thus construction delays are minimized.

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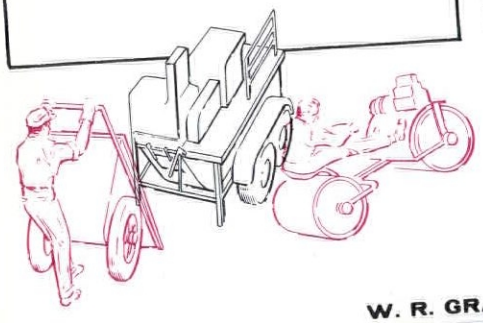

ELECTIVE ALTERNATE ROOF INSULATION

ZONOLITE DYZONE

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2. Physical Properties
a. Minimum compressive strength 125 P.S.I.
b. Oven dry density ..... 22-27 lbs. P.C.F.

PLACING

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Zonolite Insulating Concrete shall be pumped into place and screeded to a true and even surface ready to receive roofing.

Certified Zonolite Roof Deck Systems shall conform to specifications of the Vermiculite Institute and U.S.A. specifications A 122.1 1965.

W. R. GRACE & CO.
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ZONOLITE
CONSTRUCTION PRODUCTS DIVISION

62 WHITTEMORE AVENUE, CAMBRIDGE, MASSACHUSETTS 02140

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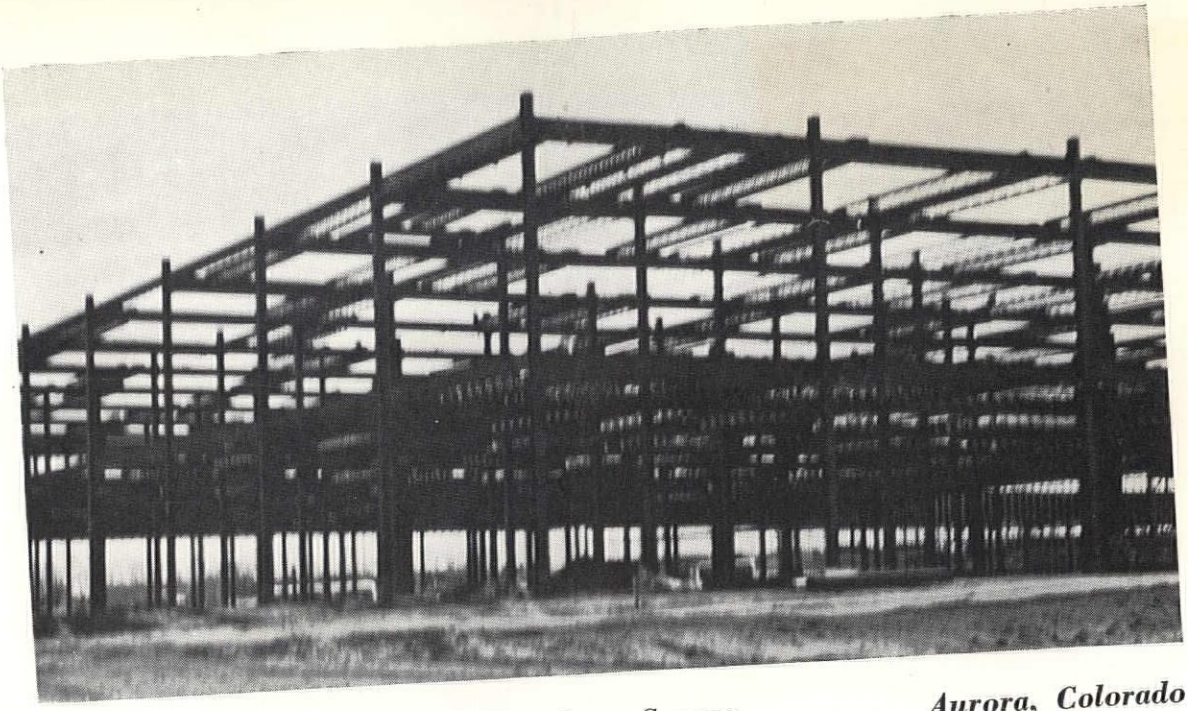

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